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## ScOTv6.4

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Changes related to National curriculum:  
Mathematics, English, History, and Science

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Report prepared by  
Curriculum Corporation

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**Version 1.0**

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## Approvals

<b>Name/Organisation/Position</b>	<b>Signature</b>	<b>Date</b>
Leonie Bourke Manager, SCIS Curriculum Corporation		
Pru Mitchell Senior Education Officer <i>education.au limited</i>		
Steve Sunter Standards Analyst Curriculum Corporation		
Les Kneebone Project Manager – Schools Online Thesaurus Curriculum Corporation		

## Disclaimer

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## 1.0 Introduction

### 1.1 Purpose

Report changes to the Schools Online Thesaurus.

### 1.2 Audience

ScOT Consultative Group and other interested parties.

### 1.3 Background

The National Curriculum Board published four shaping papers and a précis on May 8 2009. These papers cover the curriculum framework for English, Mathematics, Science and History. The shaping papers include many terms that are not explicitly covered in the ScOT thesaurus. Given the national significance of the curriculum frameworks, it is imperative that ScOT be revised to include all relevant terminology. Therefore, the report below includes revisions that cover key concepts.

This is a significant round of revisions. Further extensions will be needed when detailed curricula are published by the Australian Curriculum, Assessment and Reporting Authority (ACARA) in early 2010. There are few additions and changes in other areas arising from ongoing maintenance.

## 2.0 Web Service updates vs. Version updates

The first public 'point release' of ScOT was v3.1 in 2003. Since then all updates including new terms, term record modifications and withdrawn terms have been released in batches – v6.4 is the latest batch of updates.

Version releases follow a cycle of feedback from users, revision by curriculum experts and consultation with school jurisdictions and education agencies via the ScOT Consultative Group.

The ScOT Management Group has final approval of each release. This quality assurance process continues to be invaluable to the relevance and currency of ScOT to the ANZ school sector.

ScOTv6.4 is also the first version release since the ScOT Web Service went live. The Web Service is an online method of distributing ScOT data to licensed users and is ideal for integration with cataloguing, search and retrieval systems.

The Web Service allows users to get term updates as they are approved rather than when they are released in batches. Updating systems and records via Web Service means that maintenance and performance loads can be evenly distributed throughout the revision cycle. It also ensures that the responsiveness of ScOT to changes in school curriculum is not wasted on its users: cataloguing, search and retrieval systems can update with ScOT changes as they occur.

The Web Service is the only method of getting SKOS RDF and VDEX xml formats – both are emerging as important standards in vocabulary management.

The ScOT Web Service is available to registered users at <http://scot.curriculum.edu.au/download.asp>.

### 3.0 Approved terms

Approved terms are new in ScOTv6.4. Terms identifiers or “Term Numbers” are included (TNR).

Abstraction  
BT: Problem solving  
RT: Imagination  
TNR: 11996

Algebraic methods  
USE: Algebra  
TNR: 11826

Algebraic patterns  
USE: Number patterns  
TNR: 11865

Alpine glaciers  
UF: Mountain glaciers  
Valley glaciers  
BT: Glaciers  
NT: Moraines  
TNR: 12014

American English  
BT: English language  
TNR: 12018

Amount of substance  
UF: Mol  
Moles (Units)  
BT: Units of measurement  
TNR: 11866

Animal kingdom  
USE: Animals  
TNR: 12020

Argumentation (Conflicts)  
USE: Conflict (Human relations)  
TNR: 12021

Argumentation (Reasoning)  
USE: Reasoning  
TNR: 11997

Argumentation (Texts)

USE: Discussions  
TNR: 12022

Arguments (Variables)  
USE: Independent variables  
TNR: 12023

Arithmetic progression  
USE: Arithmetic series  
TNR: 11870

Arithmetic series  
UF: Arithmetic progression  
BT: Series  
TNR: 11869

Auditory perception  
USE: Hearing  
TNR: 11981

Aural comprehension  
USE: Listening skills  
TNR: 12198

Authentic objects  
USE: Artefacts  
TNR: 12025

Authentic texts  
USE: Authenticity (Texts)  
TNR: 12028

Authenticity (Objects)  
USE: Artefacts  
TNR: 12026

Authenticity (Texts)  
UF: Authentic texts  
BT: Composing (Texts)  
TNR: 12027

Bases (Indices)  
BT: Indices

TNR: 11871

Basic modern Latin alphabet

USE: Modern Latin alphabet

TNR:

Bell-shaped curves

USE: Normal distributions

TNR: 11873

Bell curves

USE: Normal distributions

TNR: 11874

Bels

USE: Volume (Sound)

TNR: 11876

Binomial distributions

BT: Distributions (Statistics)

TNR: 11877

Borders (National)

USE: National borders

TNR: 12030

Brainstorming

BT: Problem solving

TNR: 11995

British English

BT: English language

TNR: 12019

Candelas

USE: Energy units

TNR: 11885

Cardinality

UF: Cardinal numbers

BT: Sets (Algebra)

TNR: 11827

Cartesian coordinates

BT: Coordinates

TNR: 11886

Categorical data

USE: Categorical distributions

TNR: 11855

Categorical distributions

UF: Categorical data

Nominal data

Ordinal data

BT: Distributions (Statistics)

TNR: 11854

Causality

UF: Causation

Cause and effect

Causes and effects

Consequences

BT: Reasoning

TNR: 12031

Causation

USE: Causality

TNR: 12032

Cause and effect

USE: Causality

TNR: 12033

Causes and effects

USE: Causality

TNR: 12034

Chance and data

USE: Statistics and probability

TNR: 11887

Charts (Maps)

USE: Maps

TNR: 11888

Chronological order

BT: Time

TNR: 12035

Circular functions

BT: Trigonometric functions

TNR: 11889

Climate adaption

UF: Climatic adaption

BT: Adaptation (Evolution)

RT: Climate change

TNR: 12036

Climate variability

USE: Climate change

TNR: 12038

Climatic adaption  
USE: Climate adaption  
TNR: 12037

Cloisters (Walkways)  
USE: Walkways  
TNR: 12040

Collision theory  
USE: Kinetic theory  
TNR: 12041

Complement (Sets)  
BT: Sets (Algebra)  
TNR: 11890

Completing the square  
BT: Quadratic equations  
RT: Polynomials  
TNR: 11891

Consequences  
USE: Causality  
TNR: 12042

Contentions  
USE: Controversy  
TNR: 12044

Contestability  
USE: Dissent  
TNR: 12046

Contestation  
USE: Dissent  
TNR: 12045

Continuity (Data)  
USE: Data continuity  
TNR: 11892

Continuity (Film making)  
BT: Film making  
TNR: 12047

Continuity (Historical)  
USE: Social customs  
TNR: 12163

Continuous data  
USE: Data continuity  
TNR: 11828

Continuous distributions  
BT: Distributions (Statistics)  
TNR: 11893

Controversy  
UF: Contentions  
BT: Expositions (Factual texts)  
TNR: 12043

Cosecant  
BT: Trigonometric functions  
TNR: 11894

Cotangent  
BT: Trigonometric functions  
TNR: 11895

Counting methods  
USE: Permutations and combinations  
TNR: 11857

Creating (Texts)  
USE: Composing (Texts)  
TNR: 12048

Creation (Texts)  
USE: Composing (Texts)  
TNR: 12049

Creative writing  
USE: Literary texts  
TNR: 12050

Creators (Deities)  
USE: Deities  
TNR: 12051

Creators (Texts)  
USE: Composers (Texts)  
TNR: 12052

Cumulative frequency graphs  
BT: Graphs  
TNR: 11896

Daily life  
USE: Lifestyles



TNR: 12053

Data logging  
BT: Data collection  
TNR: 12054

Data plots  
USE: Data representation  
TNR:

Data types  
BT: Distributions (Statistics)  
TNR: 11897

Day dreaming  
USE: Daydreams  
TNR: 12056

Decimal expansions  
UF: Expanded form  
Expanded sets  
BT: Decimal system  
TNR: 11834

Deduction (Logic)  
USE: Deductive reasoning  
TNR: 12059

Deduction (Number operations)  
USE: Subtraction  
TNR: 12060

Deductions (Expenses)  
USE: Expenses  
TNR: 12058

Deductive logic  
USE: Deductive reasoning  
TNR: 12061

Derivatives (Functions)  
USE: Differentiation  
TNR: 11840

Derivatives (Investments)  
USE: Investment  
TNR: 11842

Derived functions  
USE: Differentiation  
TNR: 11841

Differences (Number operations)  
USE: Subtraction  
TNR: 11898

Differentials (Functions)  
USE: Differentiation  
TNR: 11843

Differentials (Gears)  
USE: Gears  
TNR: 11844

Differentiation  
UF: Derivatives (Functions)  
Derived functions  
Differentials (Functions)  
BT: Functions and relations  
NT: Stationary points  
TNR: 11839

Digital technology  
USE: Information technology  
TNR: 12062

Dilation  
UF: Enlargement  
Reduction  
BT: Transformation (Geometry)  
TNR: 11899

Discrete distributions  
UF: Discrete data  
BT: Distributions (Statistics)  
TNR: 11833

Distributions (Statistics)  
UF: Probability distributions  
Statistical distributions  
BT: Statistics and probability  
NT: Binomial distributions  
Categorical distributions  
Continuous distributions  
Data types  
Discrete distributions  
Geometric distribution  
Normal distributions  
Poisson distributions  
TNR: 11832

Drift ice

USE: Sea ice  
TNR: 11984

Dutch alphabet  
USE: Modern Latin alphabet  
TNR:

Earth science  
USE: Earth and space  
TNR: 12063

Elapsed time  
BT: Time  
TNR: 11901

Elementary education  
USE: Primary education  
TNR: 12064

Elementary schools  
USE: Primary schools  
TNR: 12065

Empires  
USE: Imperialism  
TNR: 12066

Energy transfer  
USE: Energy conversion  
TNR: 12067

English alphabet  
UF: Alphabet (English)  
BT: Modern Latin alphabet  
TNR:

Enlargement  
USE: Dilation  
TNR: 11900

Euclidean geometry  
USE: Geometry  
TNR: 11902

Expanded form  
USE: Decimal expansions  
TNR: 11835

Extrapolation  
BT: Estimation  
TNR: 11903

Extrema  
UF: Extremum  
Maxima and minima  
Maximum points  
Minimum points  
Minimums  
BT: Stationary points  
TNR: 11847

Extremum  
USE: Extrema  
TNR: 11850

Factorisation  
BT: Decomposition (Arithmetic)  
TNR: 11904

Fall-out (Information retrieval)  
USE: Recall (Information retrieval)  
TNR: 12128

Fast ice  
USE: Sea ice  
TNR: 11985

Film theatres  
USE: Cinemas (Buildings)  
TNR: 12068

Forgery  
USE: Fraud  
TNR: 12069

Formal grammar  
USE: Grammar  
TNR: 12070

Fractals  
BT: Self-similarity  
TNR: 11838

Fractional indices  
BT: Indices  
TNR: 11905

Frequency polygons  
BT: Graphs  
TNR: 11906

Frequency units

USE: Hertz  
TNR: 11907

Friendly numbers  
USE: Amicable numbers  
TNR: 11825

Functional grammar  
USE: Grammar  
TNR: 12071

Gaussian distributions  
USE: Normal distributions  
TNR: 11875

Geometric distribution  
BT: Distributions (Statistics)  
TNR: 11908

Geometric progressions  
USE: Geometric series  
TNR: 11910

Geometric sequences  
USE: Geometric series  
TNR: 11911

Geometric series  
UF: Geometric progressions  
    Geometric sequences  
BT: Series  
TNR: 11909

German alphabet  
USE: Modern Latin alphabet  
TNR:

Global history  
USE: World history  
TNR: 12072

Gradians  
BT: Angle units  
TNR: 11912

Height (Body size)  
BT: Physical characteristics  
TNR: 12073

Height (Elevation)  
USE: Altitude

TNR: 11913

High school education  
USE: Secondary education  
TNR: 12075

High schools  
USE: Secondary schools  
TNR: 12074

Home ranges  
USE: Range (Species)  
TNR: 12076

Ice floes  
USE: Sea ice  
TNR: 11986

Ice sheets  
BT: Glaciers  
NT: Ice shelves  
    Icecaps  
TNR: 11914

Ice shelves  
BT: Ice sheets  
TNR: 11982

Icebergs  
BT: Oceans  
RT: Glaciers  
    Ice  
TNR: 11973

ICT  
USE: Information technology  
TNR: 12077

Illiteracy  
USE: Literacy  
TNR: 11980

Induction (Employment)  
BT: Recruitment (Employment)  
TNR: 12079

Induction (Logic)  
USE: Inductive reasoning  
TNR: 12080

Inductive thinking

USE: Inductive reasoning  
TNR: 11988

Inflection points  
USE: Points of inflection  
TNR: 11849

Information and communication technologies  
USE: Information technology  
TNR: 12078

Integral calculus  
USE: Integral equations  
TNR: 11916

Integral equations  
UF: Integral calculus  
Integrals  
Integration (Functions)  
BT: Equations  
TNR: 11915

Integral indices  
UF: Whole number indices  
BT: Indices  
NT: Squares (Indices)  
TNR: 11861

Integrals  
USE: Integral equations  
TNR: 11917

Integration (Assimilation)  
USE: Assimilation  
TNR: 11920

Integration (Functions)  
USE: Integral equations  
TNR: 11918

Inter-quartile range  
UF: Interquartile range  
BT: Measures of spread  
TNR: 11863

Interactive whiteboards  
UF: IWBs  
BT: Information technology  
TNR: 12081

Interpolation

USE: Estimation  
TNR: 11921

Interquartile range  
USE: Inter-quartile range  
TNR: 11922

Intersection (Sets)  
BT: Sets (Algebra)  
TNR: 11923

Investigation  
USE: Data collection  
TNR: 12083

Isotherms  
USE: Contour lines  
TNR: 11924

IT  
USE: Information technology  
TNR: 12084

IWBs  
USE: Interactive white boards  
TNR: 12082

Junior secondary education  
USE: Lower secondary education  
TNR: 12085

Karnaugh maps  
UF: Two way tables  
BT: Sets (Algebra)  
TNR: 11925

Kinder (School year level)  
USE: Kindergarten (School year level)  
TNR: 11999

Kindergarten (School year level)  
SN: The first year of schooling – generally enrolls students who are between 5 and 6 years old.

UF: Kinder (School year level)  
Pre-primary classes  
Prep  
Prep year  
Preparatory classes  
Preparatory year  
Reception classes

Reception year	BT: Scatter plots
Transition classes	RT: Linear regression
Transition year	TNR: 11930
Year 0	
TNR: 11998	Linear regression
	BT: Estimation
Kingdoms (Classification)	RT: Line of best fit
USE: Living things	TNR: 11931
TNR: 12086	
	Linguistic proficiency
Kingdoms (Monarchy)	USE: Language proficiency
USE: Divine kingships	TNR: 12090
TNR: 11989	
	Listening comprehension
Languages other than English	USE: Listening skills
USE: Natural languages	TNR: 12197
TNR: 11974	
	Localities
Least squares fitting	USE: Geographic location
USE: Difference of squares	TNR: 12091
TNR: 11927	
	Location (Geometry)
Level of education	UF: Location (Mathematics)
USE: Levels of education	BT: Geometry
TNR: 12087	NT: Coordinates
	Direction (Geometry)
Lexicons	Triangulation
USE: Dictionaries	TNR: 11829
TNR: 12088	
	Location (Mathematics)
Liberty	USE: Location (Geometry)
USE: Freedom	TNR: 11830
TNR: 12089	
	Locuses
Life cycles (Animals)	USE: Loci
USE: Animal reproduction	TNR: 11932
TNR: 11990	
	Logarithmic functions
Life cycles (Plants)	BT: Functions and relations
USE: Plant reproduction	TNR: 11933
TNR: 11991	
	Longevity
Likelihood	USE: Life expectancy
USE: Probability	TNR: 12092
TNR: 11928	
	Malay alphabet
Line charts	USE: Modern Latin alphabet
USE: Line graphs	TNR:
TNR: 11929	
	Markov chains
Line of best fit	USE: Tree diagrams

TNR: 11934

Mathematical proofs  
USE: Proofs  
TNR: 11935

Maxima and minima  
USE: Extrema  
TNR: 11851

Maximum points  
USE: Extrema  
TNR: 11852

Meaning (Philosophy)  
BT: Philosophy  
TNR: 12093

Measurement units  
USE: Units of measurement  
TNR: 11936

Measures of spread  
BT: Data analysis  
NT: Inter-quartile range  
Range (Statistics)  
Standard deviation  
Variance  
TNR: 11862

Media studies  
USE: Media production  
TNR: 11992

Mediums (Communication)  
USE: Media  
TNR: 12094

Mediums (Paranormal)  
USE: Mediumship  
TNR: 12096

Mediumship  
UF: Mediums (Paranormal)  
BT: Paranormal  
TNR: 12095

Memorisation  
USE: Memory (Cognition)  
TNR: 12097

Memory (Data storage)  
USE: Data storage  
TNR: 12098

Metrology  
USE: Measurement  
TNR: 11937

Mindfulness  
USE: Attention  
TNR: 12099

Minimalism  
USE: Minimal art  
TNR: 12167

Minimum points  
USE: Extrema  
TNR: 11853

Minute of arc  
USE: Angle units  
TNR: 11938

Minutes (Time units)  
USE: Time units  
TNR: 11939

Modern basic Latin alphabet  
USE: Modern Latin alphabet  
TNR:

Modes of transport  
USE: Transport  
TNR: 12100

Mol  
USE: Amount of substance  
TNR: 11867

Moles (Marsupials)  
USE: Marsupial moles  
TNR: 12101

Moles (Placentals)  
BT: Placentals  
TNR: 12102

Moles (Units)  
USE: Amount of substance  
TNR: 11868

Monarchs  
USE: Heads of state  
TNR: 12103

Moraines  
BT: Alpine glaciers  
TNR: 12017

Moral judgment  
USE: Morality  
TNR: 12104

Mountain glaciers  
USE: Alpine glaciers  
TNR: 12015

Movie theatres  
USE: Cinemas (Buildings)  
TNR: 12106

Narrating  
USE: Narration  
TNR:

Narrators  
USE: Narration  
TNR:

National borders  
UF: Borders (National)  
BT: Countries  
TNR: 12029

Nature of matter  
USE: Matter  
TNR: 12107

Negative indices  
BT: Indices  
TNR: 11940

Nets (Fishing)  
USE: Fishing nets  
TNR: 11941

Networking (Computers)  
USE: Computer networks  
TNR: 12108

Networking (Social)

USE: Social networking  
TNR: 12111

Networks (Computers)  
USE: Computer networks  
TNR: 12109

Networks (Social)  
USE: Social networking  
TNR: 12112

Neutrality  
USE: Impartiality  
TNR: 12113

Nominal data  
USE: Categorical distributions  
TNR: 11856

Normal distributions  
UF: Bell-shaped curves  
    Bell curves  
    Gaussian distributions  
BT: Distributions (Statistics)  
TNR: 11872

Objects in the sky  
USE: Celestial observation  
TNR: 12114

Odds  
USE: Probability  
TNR: 11942

Olfaction  
USE: Smell  
TNR: 12115

Olfactory perception  
USE: Smell  
TNR: 12116

Opencut mining  
UF: Quarries  
BT: Mining  
TNR: 12164

Oral comprehension  
USE: Listening skills  
TNR: 12197

Oral language proficiency  
USE: Language proficiency  
TNR: 12117

Oral narrative traditions  
USE: Oral history  
TNR: 12118

Ordinals  
USE: Ordinal numbers  
TNR: 11943

Pack ice  
USE: Sea ice  
TNR: 11987

Periodic functions  
BT: Trigonometric functions  
TNR: 11944

Planes (Aircraft)  
USE: Aeroplanes  
TNR: 12119

Plot lines  
USE: Plots (Stories)  
TNR:

Plots (Data)  
USE: Data representation  
TNR:

Points of inflection  
UF: Inflection points  
BT: Stationary points  
TNR: 11848

Poisson distributions  
BT: Distributions (Statistics)  
TNR: 11945

Polar coordinates  
BT: Coordinates  
TNR: 11946

Polynomial expressions  
USE: Polynomials  
TNR: 11947

Portuguese alphabet  
USE: Modern Latin alphabet

TNR:

Positional numeral systems  
USE: Place value  
TNR: 11858

Pre-prep  
USE: Preschool (School year level)  
TNR: 12012

Pre-primary classes  
USE: Kindergarten (School year level)  
TNR: 12003

Pre-school classes  
USE: Preschool (School year level)  
TNR: 11976

Pre-school years  
USE: Preschool (School year level)  
TNR: 11977

Prep  
USE: Kindergarten (School year level)  
TNR: 12000

Prep year  
USE: Kindergarten (School year level)  
TNR: 12004

Preparatory classes  
USE: Kindergarten (School year level)  
TNR: 12001

Preparatory year  
USE: Kindergarten (School year level)  
TNR: 12002

Princedom  
USE: Principality  
TNR: 12122

Principality  
UF: Princedom  
BT: Monarchy  
TNR: 12121

Probability distributions  
USE: Distributions (Statistics)  
TNR: 11948



Probeware  
BT: Data processing  
TNR: 12123

Products (Goods)  
USE: Consumer goods  
TNR: 12120

Products (Multiplication)  
USE: Multiplication  
TNR: 11949

Quadratic expressions  
BT: Polynomials  
RT: Quadratic equations  
Quadratic functions  
TNR: 11950

Quarries  
USE: Opencut mining  
TNR: 12165

Radixes  
USE: Bases (Numeral systems)  
TNR: 11951

Raised-relief maps  
USE: Relief maps  
TNR: 11952

Range (Statistics)  
BT: Measures of spread  
TNR: 11864

Ranges (Mountains)  
USE: Mountains  
TNR: 12124

Reading comprehension  
USE: Comprehension  
TNR: 12125

Recall (Cognition)  
USE: Memory (Cognition)  
TNR: 12126

Recall (Information retrieval)  
UF: Fall-out (Information retrieval)  
BT: Information retrieval  
TNR: 12127

Reception classes  
USE: Kindergarten (School year level)  
TNR: 12005

Reception year  
USE: Kindergarten (School year level)  
TNR: 12006

Remembering  
USE: Memory (Cognition)  
TNR: 12129

Reviewing (Revising)  
BT: Study skills  
TNR: 12131

Reviewing (Texts)  
BT: Criticism  
RT: Reviews (Literary texts)  
TNR: 12130

Rhyming  
BT: Syllables  
RT: Rhymes  
TNR: 12132

Rotation (Crops)  
USE: Crop rotation  
TNR: 12134

Rotation (Grazing)  
USE: Rotational grazing  
TNR: 12133

Rotation (Motion)  
USE: Rotational motion  
TNR: 12135

Sample space  
BT: Statistics and probability  
TNR: 11953

School education  
BT: Levels of education  
NT: Early childhood education  
Middle schooling  
Primary education  
School year levels  
Secondary education  
TNR: 11993

School starting age  
USE: Learning readiness  
TNR: 12136

Science inquiry skills  
USE: Scientific method  
TNR: 12009

Sea ice  
UF: Drift ice  
Fast ice  
Ice floes  
Pack ice  
BT: Oceans  
TNR: 11983

Secant lines  
USE: Secants  
TNR: 11954

Self-similarity  
BT: Symmetry  
NT: Fractals  
TNR: 11837

Semantics  
USE: Meanings (Words)  
TNR: 12010

Senses (Meanings)  
USE: Meanings (Words)  
TNR: 12137

Short fiction  
USE: Short stories  
TNR:

Significant digits  
USE: Rounding  
TNR: 11955

Slide rule  
BT: Mathematical instruments  
TNR: 11956

Social independence  
USE: Self-management  
TNR: 12138

Social networking  
UF: Networking (Social)

Networks (Social)  
BT: Cooperation  
TNR: 12110

Social studies  
USE: Society  
TNR: 12139

Sovereigns  
USE: Heads of state  
TNR: 12140

Space (Geometry)  
USE: Geometry  
TNR: 11957

Spanish alphabet  
USE: Modern Latin alphabet  
TNR:

Speculation (Commerce)  
BT: Commerce  
TNR: 12141

Speculation (Ideas)  
USE: Originality  
TNR: 12142

Speed units  
USE: Velocity units  
TNR: 11958

States (Countries)  
USE: Countries  
TNR: 12143

States (Provinces)  
USE: Provinces  
TNR: 12144

Stationary points  
UF: Turning points (Functions)  
BT: Differentiation  
NT: Extrema  
Points of inflection  
TNR: 11845

Statistical distributions  
USE: Distributions (Statistics)  
TNR: 11959

Stone Age  
 BT: Prehistory  
 TNR: 11994

Story arcs  
 USE: Plots (Stories)  
 TNR:

Story books  
 USE: Children's literature  
 TNR:

Story lines  
 USE: Plots (Stories)  
 TNR:

Story maps  
 USE: Structure (Rhetorical device)  
 TNR:

Storyline method  
 SN: Use for resources about an educational strategy that uses key questions in a sequence to create a context within the framework of a story.  
 BT: Active learning  
 RT: Plots (Stories)  
 TNR:

Storytimes  
 USE: Storytelling  
 TNR:

Structure of the Earth  
 USE: Earth structure  
 TNR: 12145

Subjects (Concepts)  
 USE: Concepts  
 TNR: 12011

Syllogisms  
 BT: Reasoning  
 TNR: 12146

Tangent lines  
 UF: Tangents (Lines)  
 BT: Lines  
 TNR: 11960

Tangents (Lines)  
 USE: Tangent lines

TNR: 11961

Terrain models  
 USE: Relief maps  
 TNR: 11962

Text composers  
 USE: Composers (Texts)  
 TNR: 12148

Text composition  
 USE: Composing (Texts)  
 TNR: 12147

Thesauri  
 USE: Thesauruses  
 TNR: 12150

Thesauruses  
 UF: Thesauri  
 BT: Factual texts  
 TNR: 12149

Thinking skills  
 USE: Thinking  
 TNR: 12151

Topics  
 USE: Concepts  
 TNR: 12152

Transition classes  
 USE: Kindergarten (School year level)  
 TNR: 12007

Transition year  
 USE: Kindergarten (School year level)  
 TNR: 12008

Translation (Geometry)  
 BT: Transformation (Geometry)  
 TNR: 11963

Trapezia  
 USE: Trapeziums  
 TNR: 11964

Trapezoids  
 USE: Trapeziums  
 TNR: 11965

Trend lines  
USE: Time series  
TNR: 11966

Trial and error  
UF: Trial by error  
BT: Problem solving  
TNR: 12153

Trial by error  
USE: Trial and error  
TNR: 12154

Trigonometry  
USE: Trigonometric functions  
TNR: 11831

Turning points (Functions)  
USE: Stationary points  
TNR: 11846

Turning points (Stories)  
USE: Climaxes  
TNR: 12155

Two way tables  
USE: Karnaugh maps  
TNR: 11926

Typographic ligatures  
USE: Ligatures  
TNR:

Unary number system  
USE: Unary numeral system  
TNR: 11860

Unary numeral system  
UF: Unary number system  
    Unary numerals  
BT: Place value  
TNR: 11859

Unary numerals  
USE: Unary numeral system  
TNR: 11967

Union (Sets)  
BT: Sets (Algebra)  
TNR: 11968

Valley glaciers  
USE: Alpine glaciers  
TNR: 12016

Visual communication (Images)  
USE: Visual arts  
TNR: 12156

Visual communication (Media)  
USE: Media production  
TNR: 12157

Visual devices (Texts)  
USE: Illustration  
TNR: 12158

Visual literacy  
USE: Viewing  
TNR: 12013

Vortices  
UF: Vorticity  
BT: Fluid flow  
RT: Vorticism  
TNR: 11969

Vorticity  
USE: Vortices  
TNR: 11970

Walkways  
UF: Cloisters (Walkways)  
BT: Architectural details  
TNR: 12039

Web (Internet)  
USE: World Wide Web  
TNR: 12160

Web 2.0  
BT: World Wide Web  
TNR: 12159

Weights and measures  
USE: Units of measurement  
TNR: 11971

Whole number indices  
USE: Integral indices  
TNR: 11919

World literature  
USE: Regional literature  
TNR: 12162

TNR: 12161

WWW  
USE: World Wide Web

## 4.0 Updated terms

Updated terms (previously referred to as 'Modified terms') are terms that have had any change to the term record, including to any of the Notes, Relationships or the Label itself. In this report, only terms with the following Updates (detailed in Change Notes) are included:

- USE or BT relationship is added or removed;
- Label changes; e.g. "Case" changed to "Capitalisation"; or
- Addition, annotation or withdrawal of Scope notes (SN).

Addition or removal of NT, UF or RT are Updates but are not detailed in this report. Complete Updates are available from the ScOT Web Service: <http://scot.curriculum.edu.au/download.asp>.

Absolute zero

CN: 5.3 - BT Low temperatures removed, BT Kelvin scale added; 6.4 - BT Kelvin scale removed, BT Heat flow added.

BT: Heat flow

TNR: 373

Abstract thinking

CN: 6.4 – BT Cognition removed. Added USE Imagination.

USE: Imagination

TNR: 75

Acquired immunodeficiency syndrome

CN: 5.2; 6.2 - USE HIV removed, USE AIDS added; 6.4 - Changed from Acquired

Immunodeficiency Syndrome to Acquired immunodeficiency syndrome.

USE: AIDS

TNR: 9249

Activism

CN: 6.0 - BT Political science removed BT Politics added; 6.4 - BT Politics removed, BT Dissent added.

UF: Activists

BT: Dissent

TNR: 589

Allegory

CN: 5.0 - Previously Allegories (Folktales). BT Folktales removed; 6.4 - Changed from Allegories (Prose) to Allegory. BT Prose removed, BT Rhetorical devices added.

BT: Prose

NT: Fables

Parables

TNR: 999

Allegory (Rhetoric)

BT: Rhetorical devices

NT: Fables

Parables

RT: Narratives

Personification

Short stories

TNR: 999

CN: 5.0 - Previously Allegories (Folktales). BT Folktales removed; 6.4 - Changed from Allegories (Prose) to Allegory (Rhetoric). BT Prose removed, BT Rhetorical devices added.

Alliterations

CN: 6.4 - BT Figures of speech removed, BT Rhetorical devices added.

BT: Rhetorical devices

TNR: 1011

Alphabet (English)

USE: English alphabet

TNR: 232  
CN: 6.4 - Changed from Alphabet to Alphabet (English). Use Alphabets removed, USE English alphabet added.

Alphabets (Writing systems)

UF: ABC

Ornamental alphabets

Phonemic alphabets

BT: Writing systems

NT: Armenian alphabet

Consonants

Greek alphabet

Hungarian runes

Modern Latin alphabet

Vowels

RT: Consonant alphabets

Lettering

TNR: 407

CN: 5.2 - BT Decorative arts removed, Scope Note removed; 6.4 - Changed from Alphabets to Alphabets (Writing systems).

Amicable numbers

CN: 6.4 - USE Number removed, BT Number patterns added.

UF: Friendly numbers

BT: Number patterns

TNR: 1092

Angles of depression

CN: 6.4 - BT Angles removed, USE Angles of elevation added.

USE: Angles of elevation

TNR: 1179

Animal life cycles

CN: 5.3 - USE Life cycles removed, USE Growth (Animals) added; 6.4 - USE Growth (Animals) removed, USE Animal reproduction added.

USE: Animal reproduction

TNR: 1254

Animal structure and function

CN: 6.4 - Changed from Structure and function (Animals) to Animal structure and function.

UF: Anatomy and physiology (Animals)

Animal anatomy

Human anatomy

Physiology

BT: Life

NT: Animal reproduction

Biological rhythms

Body fluids

Body parts

Body regions

Circulatory system

Digestion

Endocrine system

Excretion

Exocrine glands

Growth (Animals)

Hormones (Animals)

Immune system

Integumentary system

Metabolism (Animals)

Movement (Animals)

Muscles

Nervous system

Organs (Anatomy)

Physical characteristics

Respiratory system

Skeleton

TNR: 9855

Architecture

CN: 6.4 - BT Arts removed, BT Design added.

SN: Use for resources on the design and style of structures. For resources on actual building structures or edifices use Buildings (Structures).

For resources on the process of construction use

Building (Engineering).

UF: Building design

BT: Arts

NT: Ancient architecture

Architectural details

Baroque architecture

Colonial architecture

Domestic architecture

Energy efficient building design

Futurist architecture

Georgian architecture

Greek architecture

Maori architecture

Medieval architecture

Romanesque architecture

Victorian architecture

TNR: 1076

Area

CN: 5.3 - BT Measurement removed, BT Dimensions added; 6.4 - Removed BT Dimensions. Added BT Measurement.  
BT: Measurement  
NT: Surface area  
TNR: 1601

Area units  
CN: 5.0 - BT Units of measurement; 6.4 - Changed from Surface area units to Area units.  
UF: Area measurement  
Hectares  
Square metres  
BT: Units of measurement  
TNR: 6824

Arrays  
CN: 6.4 - BT Tables removed, BT Matrices added.  
BT: Matrices  
TNR: 1653

Arts  
CN: 5.0 - BT Humanities removed; 6.4 - Scope Note added.  
SN: Use for resources about visual arts or performing arts. For resources about written works, use Literature.  
UF: Arts literacy  
Fine art  
Humanities  
Multi arts  
NT: Architecture  
Art movements  
Art themes  
Dance  
Design  
Films  
Media production  
Music  
Regional art  
Theatre (Arts)  
Visual arts  
TNR: 1556

Average  
CN: 6.4 - USE Mean removed, USE Central tendency added.  
USE: Central tendency  
TNR: 2082

Base ten number system  
CN: 6.4 - Changed from Ten number system to Base ten number system.  
USE: Decimal system  
TNR: 4883

Bases (Numeral systems)  
CN: 6.2 - BT Mathematical notation removed, BT Numbers added; 6.4 - Changed from Numbering system to Bases (Numeral systems).  
BT Number removed, BT Place value added.  
UF: Radixes  
BT: Place value  
NT: Binary system  
Decimal system  
Duodecimal system  
Hexadecimal system  
Octal system  
Senary system  
Ternary system  
TNR: 2431

Binomials  
CN: 5.3 - Changed from Binomial expressions to Binomial. BT Expressions removed, BT Polynomial added; 6.4 - Changed from Binomial to Binomials.  
BT: Polynomials  
TNR: 2434

Block diagrams  
CN: 6.4 - Changed from Block graphs to Block diagrams. BT Graphs removed, BT Diagrams added.  
BT: Diagrams  
TNR: 2604

Body mass index  
CN: 6.4 - BT Mass units removed, BT Physical characteristics added.  
UF: BMI  
BT: Physical characteristics  
TNR: 2640

Borders (Visual arts)  
CN: 6.4 Changed from Borders to Borders (Visual arts).  
BT: Composition (Visual arts)  
TNR: 2751

Breadth



CN: 5.3 - BT Measurement removed, BT Length added; 6.4 - BT length removed, USE Length added.

USE: Length

TNR: 2794

Bronze Age

CN: 6.4 - BT Prehistory added.

BT: Ancient history

Prehistory

TNR: 1157

Building design

CN: 6.4 - BT Building (Engineering) and BT Engineering design removed, USE Architecture added.

USE: Architecture

TNR: 1586

Bushels

CN: 6.4 - BT Mass units removed, USE Mass units added.

USE: Mass units

TNR: 2982

Calculus

CN: 6.2 - BT Mathematics removed, BT Algebra added; 6.4 - BT Algebra removed, BT Functions and relations added.

BT: Functions and relations

NT: Limits

TNR: 3070

Capacity units

CN: 6.4 - BT Units of measurement removed, USE Volume units added.

USE: Volume units

TNR: 3139

Capitalisation

CN: 6.2 - Changed from Case to Capitalisation; 6.4 - BT Grammar removed, BT Language conventions added.

UF: Capital letters

Lower case

Upper case

BT: Language conventions

TNR: 3273

Cardinal numbers

CN: 6.4 - BT Numbers removed, USE Cardinality added.

USE: Cardinality

TNR: 3195

CD-ROM reviews

CN: 6.4 - Changed from CD ROM reviews to CD-ROM reviews.

BT: Reviews (Literary texts)

TNR: 3346

CD-ROMs

CN: 6.2 - BT Interactive multimedia and BT Optical discs removed BT CDs added; 6.4 - Changed from CD ROMs to CD-ROMs.

BT: CDs

TNR: 3347

Charts (Data)

CN: 6.4 - Changed from Charts to Charts (Data).

BT Data representation removed, USE Data representation added.

USE: Data representation

TNR: 3480

Children's literature

CN: 6.4 - Scope note added.

SN: Use for resources about literature written for children.

UF: Children's stories

Story books

BT: Literature

TNR: 3651

Choropleth maps

CN: 6.4 - BT Maps removed, BT Thematic maps added.

SN: Use for resources about maps which show regions or areas which have the same characteristics.

BT: Thematic maps

TNR: 3711

Cinemas (Buildings)

CN: 6.4 Removed BT Buildings (Structures).

Added BT Auditoriums. Changed from Cinemas to Cinemas (Buildings).

UF: Cinema screening

Film projection

Film screening

Film theatres

Movie screening  
Movie theatres

BT: Auditoriums  
TNR: 2912

Circumference

CN: 5.3 - Changed to singular form. BT Length removed, BT Circles added; 6.4 - Removed BT Circles. Added BT Length.

BT: Length  
TNR: 3758

City-states

CN: 5.3 - BT Cities removed, BT Countries added; 6.4 - Changed from City states to City-states.

BT: Countries  
TNR: 3774

Classification

CN: 6.4 – BT Information management removed, BT Scientific method added.  
SN: Use for resources about the ordering of related phenomena into categories, groups, families or systems, according to characteristics or attributes.

UF: Classification systems

Grouping procedures

Sorting procedures

Taxonomy

BT: Scientific method

NT: Properties

TNR: 2757

Classification systems

CN: 6.4 – BT Classification removed, USE Classification added.

USE: Classification

TNR: 3833

Cloisters (Buildings)

CN: 6.3; 6.4 - Changed from Cloisters to Cloisters (Buildings).

BT: Religious buildings

TNR: 11762

Collocations

CN: 6.4 - Removed BT Semantics. Added BT Juxtaposition.

BT: Juxtaposition

TNR: 3997

Commercial architecture

CN: 6.4 - USE Industrial architecture removed, USE Industrial buildings added.

USE: Industrial buildings

TNR: 4081

Communication networks

CN: 6.4 - USE Communications (Technology) removed, USE Telecommunications added.

USE: Telecommunications

TNR: 4109

Communications (Technology)

CN: 6.4 - BT Technology removed, USE Telecommunications added.

USE: Telecommunications

TNR: 4110

Competitions (Evaluation methods)

CN: 6.0; 6.4 - Changed from Competitions to Competitions (Evaluation methods).

BT: Evaluation methods

TNR: 10313

Complementary angles

CN: 6.4 - BT Angles removed, BT Adjacent angles added.

BT: Adjacent angles

TNR: 1181

Comprehension

CN: 5.0 - BT Language skills removed, Language added; 6.4 - BT Language removed, BT Reading added.

UF: Reading comprehension

BT: Reading

NT: Alternative readings

Criticism

Dominant readings

Drama semiotics

Key ideas

Resistant readings

Theatre semiotics

TNR: 1054

Concepts

CN: 6.4 - BT Ideation removed, BT Cognition added.

UF: Abstract ideas

Subjects (Concepts)  
Topics

BT: Cognition  
TNR: 4244

Conceptual thinking

CN: 6.4 - USE Abstract thinking removed, USE Imagination added.  
USE: Imagination  
TNR: 76

Congruence

CN: 5.3 - BT Geometric concepts removed, BT Geometry added; 6.4 - BT Geometry removed, BT Transformation (Geometry) added.  
BT: Transformation (Geometry)  
NT: Symmetry  
TNR: 4285

Conscientious objection

CN: 6.2 - BT Ethics and BT Pacifists removed, BT Activism added; 6.4 - BT Activism removed, BT Dissent added.  
BT: Dissent  
TNR: 4301

Coordinates

CN: 5.3 - BT Coordinate geometry removed, BT Geometry added; 6.4 - BT Geometry removed, BT Location (Geometry) added.  
BT: Location (Geometry)  
NT: Axes  
    Cartesian coordinates  
    Grids  
    Polar coordinates  
TNR: 4438

Cosine

CN: 6.4 - BT Angles removed, BT Trigonometry added.  
BT: Trigonometric functions  
TNR: 1183

Coulombs

CN: 6.4 - BT Energy units removed, USE Electric charge added.  
USE: Electric charge  
TNR: 4512

Creation (Universe)

CN: 5.3 - BT Universe removed, BT Universe formation added; 6.4 - Changed from Creation to Creation (Universe).

UF: Creation myths

    Creationism

    Foundation myths

BT: Universe formation  
TNR: 2418

Creativitive thinking

CN: 5.0 - BT Ability removed, Personal development added; 6.2 - BT Personal development removed, Use Creative thinking added; 6.4 - Changed from Creativity to Creative thinking.  
USE: Creativity  
TNR: 241

Creativity

CN: 6.4 - Changed from Creative thinking to Creativity; BT Thinking removed, BT Cognition added.

UF: Creativeness

    Creative thinking

    Divergent thinking

    Exploratory thinking

    Imaginative thinking

    Open thinking

BT: Cognition

NT: Imagination

    Innovation

    Originality

TNR: 4553

Critical thinking

CN: 6.4 - BT Cognition removed, BT Thinking added.

BT: Thinking

TNR: 4586

Cubic metres

CN: 6.4 - BT Volume units removed, USE Volume units added.

USE: Volume units

TNR: 4643

Data continuity

CN: 6.2 - BT Data removed, BT Data analysis added; 6.4 - Changed from Continuous data to Data continuity.

UF: Continuity (Data)

Continuous data  
BT: Data analysis  
TNR: 4385

Decibels  
CN: 6.4 - BT Units of measurement removed,  
USE Volume (Sound) added.  
USE: Volume (Sound)  
TNR: 4875

Decimals  
CN: 6.4 - BT Decimal system removed, USE  
Decimal fractions added.  
USE: Decimal fractions  
TNR: 4884

Decision making  
CN: 5.0 - BT Management removed, BT  
Planning added; 6.2 - BT Planning removed; 6.4  
- BT Cognition removed, BT Thinking added.  
BT: Thinking  
NT: Agenda setting  
    Apathy  
    Impartiality  
    Judgement  
TNR: 4587

Deconstructivism  
CN: 5.0 - BT Arts and BT Modern Arts  
removed, Arts movements added. RT Modern  
art added; 6.2 - BT Art movements removed,  
USE Postmodernist architecture added; 6.4 -  
USE Postmodernist architecture removed, USE  
Postmodernist art added.  
USE: Postmodernist art  
TNR: 1781

Deductive reasoning  
CN: 6.4 - Changed from Deductive thinking to  
Deductive reasoning.  
UF: Analytical thinking  
    Closed thinking  
    Convergent thinking  
    Deduction (Logic)  
    Deductive logic  
BT: Reasoning  
NT: Procedural thinking  
TNR: 4917

Depth (Length)

CN: 5.3 - BT Measurement removed, BT Length  
added; 6.4 - Changed from Depth to Depth  
(Length). BT Length removed, USE Length  
added.

USE: Length  
TNR: 4981

Diacritics  
CN: 5.2; 6.4 - BT Language conventions  
removed, BT Writing systems added.  
SN: Use for resources about supplementary  
symbols added in writing systems to  
differentiate similar characters or specify  
phonetic characteristics.  
UF: Diacritical marks  
BT: Writing systems  
NT: Accents (Diacritics)  
    Tone marks  
TNR: 9308

Difference (Classification)  
CN: 6.4 - BT Properties removed, USE  
Similarity added. Changed from Difference to  
Difference (Classification)  
USE: Similarity  
TNR: 5070

Diffusion  
CN: 5.0 - BT Molecular forces removed,  
Physical processes added. 5.3 - BT Physical  
processes removed, BT Kinetic energy added;  
6.4 - BT Kinetic energy removed, BT Kinetic  
theory added.  
BT: Kinetic theory  
NT: Osmosis  
TNR: 5079

Digital communications  
CN: 6.4 - USE Communications (Technology)  
removed, USE Telecommunications added.  
USE: Telecommunications  
TNR: 4112

Digits (Integers)  
CN: 6.4 - Change from Digits to Digits  
(Integers). BT Whole numbers removed, USE  
Integers added.  
USE: Integers  
TNR: 5112

Direct action

CN: 6.4 - BT Activism removed, BT Dissent added.

BT: Dissent  
TNR: 590

Direction (Geometry)

CN: 5.3 - Changed from Direction (Mathematical concepts) to Direction (Geometry). BT Mathematical concepts removed, BT Geometry added; 6.4 - BT Geometry removed, BT Location (Geometry) added.

BT: Location (Geometry)  
TNR: 2322

Discrete data

CN: 6.2 - BT Data removed, BT Data analysis added; 6.4 - BT Data analysis removed, USE Discrete distributions added.

USE: Discrete distributions  
TNR: 4823

Dissent

CN: 6.0 - BT Political science removed, BT Activism added; 6.4 - BT Activism removed, BT Politics added.

UF: Contestability

Contestation  
Resistance (Activism)  
Social action

BT: Politics

NT: Activism

Conscientious objection  
Direct action  
Passive resistance  
Petitions  
Protests  
Resident action

TNR: 1134

Distance time graphs

CN: 6.4 - Change from Distance time graph to Distance time graphs. BT Graphs removed, BT Line graphs added.

BT: Line graphs  
TNR: 5190

Distribution (Marketing)

CN: 6.4 - Changed from Distribution to Distribution (Marketing).  
BT: Marketing

TNR: 5197

Dot symbol maps

CN: 6.4 - BT Maps removed, BT Thematic maps added.

BT: Thematic maps  
TNR: 5244

Early childhood education

CN: 6.0; 6.4 - BT Levels of education removed, BT School education added.

UF: Early learning

Early years  
Grade prep  
Kindergarten (Preschool)

BT: School education

NT: Preschool (School year level)

Preschool education

TNR: 10408

Early learning centres

CN: 6.0; 6.4 – Removed USE Preschools.

Added BT Educational institutions.

BT: Educational institutions

NT: Preschools (Educational institutions)

TNR: 10636

Echolocation

CN: 5.3 - BT Echo removed, BT Senses added; 6.4 – Removed BT Senses (Perception), added BT Perception.

BT: Perception

TNR: 2294

Editors

CN: 6.4 - BT Occupations (Work) removed, BT Composers (Text) added.

BT: Composers (Texts)

TNR: 4162

Electroreception

CN: 5.3; 6.4 - BT Senses removed, BT Perception added.

UF: Electroreception

BT: Perception

TNR: 9419

Emergency services

CN: 6.2 - BT Government role removed, BT Safety added; 6.4- BT Safety removed, BT Social services added.

UF: Civil defence  
 Emergency management  
 BT: Social services  
 NT: Ambulance services  
 Cyclone warnings  
 Disaster relief  
 Firefighting  
 Life saving  
 Search and rescue  
 TNR: 1072

Energy efficient building design  
 CN: 5.2; 5.3 - USE Energy conservation removed, USE Energy use added; 6.4 - USE Building design and USE Energy use removed, BT Architecture added.  
 BT: Architecture  
 TNR: 2900

Euclidean space  
 CN: 5.3; 6.4 - BT Geometry removed, USE Geometry added.  
 USE: Geometry  
 TNR: 9833

Expanded sets  
 CN: 6.4 - BT Number removed, USE Decimal expansions added.  
 USE: Decimal expansions  
 TNR: 5922

Expressionist architecture  
 CN: 6.4 - BT Architecture and BT Expressionism removed, USE Expressionism added.  
 USE: Expressionism  
 TNR: 1563

Eyeglasses  
 CN: 6.4 - Changed from Glasses to Eyeglasses.  
 UF: Glasses  
 Spectacles  
 BT: Optometry  
 NT: Sunglasses  
 TNR: 5965

Fables  
 CN: 6.4 - BT Poetry and BT Prose removed, BT Allegory added.  
 BT: Allegory  
 TNR: 1003

Fallacy  
 CN: 5.0 - BT Philosophy removed, Logic added; 6.4 - BT Logic removed, BT Reasoning added.  
 BT: Reasoning  
 TNR: 6001

Fibonacci sequence  
 CN: 6.4 - Changed from Fibonacci numbers to Fibonacci sequence.  
 BT: Sequences (Number patterns)  
 TNR: 6102

Figurate numbers  
 CN: 6.4 - BT Number removed, BT Sequences (Mathematics) added.  
 BT: Sequences (Number patterns)  
 TNR: 6134

Fire tolerance (Plants)  
 CN: 5.3; 6.4 - BT Plant structure and function removed, BT Plant defences added.  
 UF: Fire tolerant plants  
 BT: Plant defences  
 TNR: 9897

Flow charts  
 CN: 6.4 - BT Data representation removed, BT Diagrams added.  
 UF: Flow diagrams  
 BT: Diagrams  
 TNR: 4835

Flowering  
 CN: 5.3; 6.4 - BT Plant structure and function removed, USE Plant reproduction added.  
 USE: Plant reproduction  
 TNR: 9870

Fuel consumption units  
 CN: 6.4 - Changed from Fuel consumption units to Fuel consumption. BT Units of measurement removed, BT Consumer goods added.  
 BT: Consumer goods  
 NT: Litres per 100 kilometres  
 TNR: 6440

Function graphs  
 CN: 6.4 - BT Graphs removed, BT Functions and relations added.  
 BT: Functions and relations

TNR: 6448

Functional literacy

CN: 6.0; 6.4 – Removed BT Language proficiency. Added BT Literacy.

BT: Literacy

TNR: 10707

Functions and relations

CN: 5.3 - BT Mathematical formulas removed, BT Calculus added; 6.4 - Changed from Functions (Mathematics) to Functions and relations. BT Calculus removed, BT Algebra added.

BT: Algebra

NT: Calculus

Differentiation

Exponential functions

Function graphs

Iteration

Linear functions

Logarithmic functions

Logarithmic graphs

Quadratic functions

Reciprocal functions

TNR: 5932

Futurism

USE: Futurist art

TNR: 1784

CN: 5.0 - BT Arts removed, Arts movements added; 6.2 - Not valid; 6.4 - USE Futurist art added.

Futurist architecture

CN: 6.2 - BT Futurism removed; 6.4 - BT Architecture removed, USE Futurist art added.

BT: Architecture

TNR: 1564

Glasses

CN: 6.4 - Changed from Eyeglasses to Glasses.

USE: Eyeglasses

TNR: 5964

Glyphs

CN: 5.2 - BT Orthography added; 6.2 - BT Hieroglyphics removed; 6.4 – BT Language conventions removed, USE Writing systems added.

USE: Writing systems

TNR: 6615

Gothic architecture

CN: 6.4 - BT Architecture removed, USE Gothic art added.

USE: Gothic art

TNR: 1566

Gothic revival architecture

CN: 6.4 – Changed from Gothic revival architecture to Gothic revival art. BT Revival architecture removed, USE Gothic revivalism added.

USE: Gothic revivalism

TNR: 6640

Grade prep

USE: Early childhood education

TNR: 10714

CN: 6.0; 6.4 - USE Early childhood education removed, USE Kindergarten (School year level) added.

Grams

CN: 6.4 - BT Mass units removed, USE Mass units added.

USE: Mass units

TNR: 6667

Grids

CN: 6.4 - BT Data representation removed, BT Coordinates added.

BT: Coordinates

NT: Grid references

TNR: 4836

Handwriting

CN: 5.0 - BT Writing removed, Composing (Texts) added; 6.2 - BT Composing (Texts) removed, BT Language added; CN: 6.4 – Removed BT Language. Added BT Language conventions.

UF: Penmanship

Writing (Handwriting)

BT: Language conventions

NT: Calligraphy

Foundation Style

TNR: 3081

Hearing

CN: 6.4 – Removed BT Senses (Perception).  
Added BT Perception.  
UF: Auditory perception  
BT: Perception  
TNR: 5429

Hectares  
CN: 6.4 - BT Area units removed, USE Area  
units added.  
USE: Area units  
TNR: 6823

Hectolitres  
CN: 6.4 - BT Capacity units removed, USE  
Volume units added.  
USE: Volume units  
TNR: 3140

Hectopascals  
CN: 5.3 - BT Atmospheric pressure removed;  
6.4 - BT Pressure units removed, USE  
Atmospheric pressure added.  
USE: Atmospheric pressure  
TNR: 918

Height (Length)  
CN: 6.4 - Changed from Height to Height  
(Length). BT Length removed, USE Length  
added.  
BT: Length  
TNR: 6826

Histograms  
CN: 6.4 - BT Column graphs removed, BT  
Graphs added.  
BT: Graphs  
TNR: 4027

Horsepower  
CN: 6.4 - BT Velocity units removed, USE  
Velocity units added.  
USE: Velocity units  
TNR: 6912

Hyperbolas  
CN: 6.4 - BT Curves removed.  
BT: Conic sections  
TNR: 4290

Icecaps

CN: 6.4 - BT Landforms removed, BT Icesheets  
added.  
BT: Ice sheets  
TNR: 6593

Idea generation  
CN: 6.2; 6.4 - USE Ideation removed, USE  
Originality added.  
USE: Originality  
TNR: 11396

Ideation  
CN: 6.2 - Changed from Ideas to Ideation; 6.4 -  
BT Cognition removed, USE Originality added.  
USE: Originality  
TNR: 7004

Imagination  
CN: 6.1 - BT Psychology removed, BT Thinking  
added; 6.4 - Removed BT Cognition, added BT  
Creativity.  
UF: Abstract thinking  
    Conceptual thinking  
    Make believe  
BT: Creativity  
NT: Daydreams  
    Visualisation  
TNR: 5356

Imperialism  
CN: 5.0 - BT Foreign policy removed, Political  
science added; 6.0 - BT Political science  
removed BT Politics added; 6.2 - BT Politics  
removed, BT Social and political systems added;  
6.4 – Removed BT Social and political systems.  
Added BT Political independence.  
UF: Empires  
BT: Political independence  
NT: Colonies  
    Colonisation  
    Invasion  
TNR: 4005

Inductive reasoning  
CN: 5.0 - BT Thinking removed; 6.4 - Changed  
from Inductive thinking to Inductive reasoning.  
UF: Induction (Logic)  
    Inductive thinking  
    Mathematical induction  
BT: Reasoning  
TNR: 7078



Industrial architecture

CN: 6.4 - BT Architecture removed, USE Industrial buildings added.  
USE: Industrial buildings  
TNR: 1568

Infinity

CN: 6.4 - BT Number removed, BT Limits added.  
BT: Limits  
TNR: 7109

Interaction skills

CN: 5.0 - Modification - NP; 6.4 – Removed USE Interpersonal communication, USE Human relations added.  
USE: Human relations  
TNR: 7166

Interpersonal communication

CN: 6.4 – Removed BT Communication (Language), USE Communication (Language) added.  
USE: Communication (Language)  
TNR: 4100

Interpersonal skills

CN: 5.0 - Modification - NP; 6.4 – Removed USE Interpersonal communication and USE Communication skills, USE Human relations added.  
USE: Human relations  
TNR: 4111

Iron Age

CN: 6.3; 6.4 - BT Ancient history removed, BT Prehistory added.  
BT: Prehistory  
TNR: 11537

Isobars

CN: 5.3 - BT High pressure systems and BT Low pressure systems removed, BT Contour lines added; 6.4 - BT Contour lines removed, USE Contour lines added.  
USE: Contour lines  
TNR: 6849

Isopleth maps

CN: 6.4 - BT Maps removed, USE Contour maps added.  
USE: Contour maps  
TNR: 7236

Joules

CN: 6.4 - BT Energy units removed, USE Energy units added.  
USE: Energy units  
TNR: 5727

Kilograms

CN: 6.4 - BT Force units and BT Mass units removed, USE Mass units added.  
USE: Mass units  
TNR: 6338

Kilometres

CN: 6.4 - BT Length units removed, USE Length units added.  
USE: Length units  
TNR: 7329

Kilometres per hour

CN: 6.4 - BT Velocity units removed, USE Velocity units added.  
USE: Velocity units  
TNR: 7330

Kilopascals

CN: 6.4 - BT Pressure units removed, USE Force units added.  
USE: Force units  
TNR: 7331

Kilowatts

CN: 6.4 - BT Power units and BT Watts removed, USE Energy units added.  
USE: Energy units  
TNR: 7332

Kindergarten (Preschool)

CN: 6.0; 6.4 - Changed from Kindergarten to Kindergarten (Preschool).  
USE: Early childhood education  
TNR: 10715

Kinetic energy

CN: 5.3 - BT Energy removed, BT Mechanical energy added. 6.4 - Scope note added.

SN: Use for resources about the motion of objects. For resources on the motion of particles, use Kinetic theory.  
UF: Movement (Energy)  
BT: Mechanical energy  
TNR: 5630

Kinetic theory  
CN: 5.3 - BT Motion removed, BT Gases added. Scope note added; 6.4 - BT Gases removed, BT Molecular forces added.  
SN: Use for resources about the motion of objects. For resources on the motion of particles, use Kinetic energy.  
UF: Collision theory  
BT: Molecular forces  
NT: Diffusion  
    Pressure  
TNR: 7342

Knots (Velocity)  
CN: 6.4 - BT Velocity units removed, USE Velocity units added.  
USE: Velocity units  
TNR: 7360

Language  
CN: 5.0 - BT Communication (Sociology) removed, BT Humanities removed - Language is a new top term; 6.4 - Scope note added.  
SN: Use for resources about human communication.  
UF: Language arts  
    Language awareness  
    Linguistics  
    Metalinguistics  
    Verbal communication  
NT: Communication (Language)  
    Composing (Texts)  
    Language conventions  
    Listening  
    Literacy  
    Literature  
    Natural languages  
    Nonverbal communication  
    Reading  
    Speech  
    Text types  
    Texts  
    Writing systems  
TNR: 1028

Language arts  
CN: 6.4 - USE Communication (Language) removed, USE Language added.  
USE: Language  
TNR: 4096

Language conventions  
CN: 5.2; 6.4 - Changed from Orthography to Language conventions. Removed BT Grammar, added BT Language.  
BT: Language  
NT: Capitalisation  
    Grammar  
    Handwriting  
    Punctuation  
    Spelling  
TNR: 9310

Language proficiency  
CN: 6.0; 6.1 - BT Literacy removed, BT Language added; 6.4 - BT Language removed, BT Literacy added. Scope note added.  
SN: Use for resources about fluency in a spoken language.  
UF: Language abilities  
    Language literacy  
    Linguistic proficiency  
    Oral language proficiency  
BT: Literacy  
NT: Multilingualism  
TNR: 10398

Lateral thinking  
CN: 6.4 - Removed BT Creative thinking, added BT Problem solving.  
UF: Horizontal thinking  
BT: Problem solving  
TNR: 7445

Latin alphabet  
CN: 6.4 - BT Alphabet removed, USE Modern Latin alphabet added.  
USE: Modern Latin alphabet  
TNR: 948

Legislative assemblies  
CN: 6.4 - Removed BT State government, added BT Parliaments.  
BT: Parliaments  
TNR: 7477

### Letters (Characters)

CN: 6.4 Changed from Letters (Writing) to Letters (Characters). Removed USE Characters (Writing systems), added USE Writing systems.  
USE: Writing systems  
TNR: 406

### Letters (Correspondence)

CN: 6.4 Changed from Letters (Texts) to Letters (Correspondence).  
BT: Prose  
NT: Business letters  
    Letters of complaint  
    Letters to the editor  
    Personal letters  
TNR: 3022

### Ligatures

CN: 6.4 - BT Modern Latin alphabet removed, BT Typography added.  
UF: Typographic ligatures  
BT: Typography  
TNR: 7507

### Listening

CN: 5.0 - BT Phonetics removed; 6.4 - BT Communication (Language) removed, BT Language added.  
UF: Active listening  
    Aural skills  
BT: Language  
TNR: 585

### Lists

CN: 6.4 - BT Text removed, BT Factual texts added.  
BT: Factual texts  
NT: Catalogues  
    Menus  
TNR: 5595

### Literacy

CN: 5.0 - BT Education and BT Literature removed. RT Education added; 6.0 - BT Language removed, BT Learning added; 6.2 - BT Learning removed, USE Language added; 6.4 - Removed USE Language. Added BT Language. Added a scope note.  
SN: Use for resources about the ability to understand and produce the English language

accurately, fluently, creatively, critically, confidently, and effectively in a range of modes, and digital and print settings, in texts designed for a range of purposes and audiences.

UF: Illiteracy  
BT: Language  
NT: Functional literacy  
    Language proficiency  
    Viewing  
TNR: 1804

### Literature

CN: 5.0 - BT Humanities removed, Language added; 6.2 - BT Language removed, BT Arts added; 6.4 - BT Arts removed, BT Language added.  
UF: Humanities  
BT: Language  
NT: Children's literature  
    Drama  
    Genres  
    Poetry  
    Prose  
    Regional literature  
    Sacred literature  
TNR: 308

### Litres

CN: 6.4 - BT Capacity units removed, USE Volume units added.  
USE: Volume units  
TNR: 3141

### Location (Geography)

CN: 6.4 - Changed from Location to Location (Places).  
USE: Geographic location  
TNR: 6549

### Logarithmic graphs

CN: 6.4 - BT Graphs removed, BT Functions and relations added.  
BT: Functions and relations  
TNR: 6678

### Loudness

CN: 6.4 - USE Amplitude removed, USE Volume (Sound) added.  
USE: Volume (Sound)  
TNR: 1116

Magnetoception  
CN: 5.3; 6.4 – Removed BT Senses  
(Perception). Added BT Perception.  
UF: Magnetoreception  
BT: Perception  
TNR: 9420

Maps  
CN: 5.3 - BT Geography and BT Factual texts  
removed, BT Data representation added; 6.4 -  
BT Data representation removed.  
UF: Cartography  
Charts (Maps)  
Map drawing  
Map making  
BT: Navigation equipment  
NT: Astronomical maps  
Atlases  
Contour maps  
Map projection  
Marine charts  
Physical maps  
Political maps  
Relief maps  
Road maps  
Thematic maps  
Weather maps  
TNR: 1877

Maritime safety  
CN: 6.4 - BT Safety removed, USE Water safety  
added.  
USE: Water safety  
TNR: 5196

Mathematical induction  
CN: 5.3 - Changed from Induction  
(Mathematics) to Mathematical induction. BT  
Mathematics removed, BT Deductive thinking  
added; 6.4 - BT Deductive thinking removed,  
USE Inductive reasoning added.  
USE: Inductive reasoning  
TNR: 7077

Meanings (Words)  
CN: 6.4 - Changed from Semantics to Meanings  
(Words). BT Language removed, BT Grammar  
added.  
UF: Semantics  
Semiotics  
Senses (Meanings)

BT: Grammar  
NT: Antonyms  
Homonyms  
Synonyms  
Transformational grammar  
Vocabulary  
TNR: 3998

Media  
CN: 5.0 - BT Communication (Sociology)  
removed, Sociology added; 6.4 – Removed BT  
Society. Added BT Telecommunications.  
UF: Digital media  
Mediums (Communication)  
BT: Telecommunications  
NT: Broadcasting  
Multimedia  
Publishing  
TNR: 4102

Media literacy  
CN: 6.2 - BT Literacy removed, BT Critical  
thinking added; 6.4 – Removed BT Critical  
thinking. Added USE Media production.  
USE: Media production  
TNR: 7546

Media production  
CN: 6.4 - BT Media removed, BT Arts added.  
SN: Use for resources about the techniques for  
the creation of products, such as films, radio and  
television programs, publications, etc.  
UF: Media language  
Media literacy  
Media studies  
Production techniques  
Visual communication (Media)  
BT: Arts  
NT: Autocues  
Credits (Films)  
Dramaturgy  
Film making  
Film sets  
Journalism  
Lighting  
Photography  
Recording (Media production)  
Scriptwriting  
Soundtracks  
Special effects  
Stagecraft

Storyboards  
TNR: 4563

Memory (Cognition)  
CN: 6.2 - BT Cognition removed, BT Thinking added; 6.4 - Changed from Memory to Memory (Cognition).  
UF: Memorisation  
    Recall (Cognition)  
    Remembering  
BT: Cognition  
TNR: 7161

Memos  
CN: 6.4 - BT Written communication removed.  
UF: Memoranda  
BT: Business communication  
TNR: 3006

Meter  
CN: 6.4 - Changed from Meter to Meter (Poetry).  
USE: Metre (Poetry)  
TNR: 7866

Metres (Length)  
CN: 6.4 - Changed from Metres (Measurement) to Metres (Length). BT Length units removed, USE Length units added.  
USE: Length units  
TNR: 7483

Metres per second  
CN: 6.4 - BT Velocity units removed, USE Velocity units added.  
USE: Velocity units  
TNR: 7872

Middle schooling  
CN: 6.0; 6.4 – Removed BT Levels of education, added BT School education.  
SN: Use for resources about years which encompass later years of primary education and earlier years of secondary education, usually years 6 to 9.  
UF: Middle years  
BT: School education  
TNR: 10409

Milligrams

CN: 6.4 - BT Mass units removed, USE Mass units added.  
USE: Mass units  
TNR: 7765

Millilitres  
CN: 6.4 - BT Capacity units removed, USE Volume units added.  
USE: Volume units  
TNR: 3142

Minimal architecture  
CN: 6.4 - BT Architecture removed, USE Minimal art added.  
USE: Minimal art  
TNR: 1571

Minimums  
CN: 6.4 - BT Numbers removed, USE Extrema added.  
USE: Extrema  
TNR: 7898

Minutes (Angle units)  
CN: 6.4 - Changed from Minutes (Measurement) to Minutes (Angle units). BT Angle units and BT Time units removed, USE Angle units added.  
USE: Angle units  
TNR: 1177

Mixed numbers  
CN: 6.4 - BT Numbers removed, USE Improper fractions added.  
USE: Improper fractions  
TNR: 7912

Modern Latin alphabet  
CN: 6.4 - BT Latin alphabet removed, BT Alphabets added.  
UF: Alphabet  
    Basic Modern Latin alphabet  
    Dutch alphabet  
    German alphabet  
    Latin alphabet  
    Malay alphabet  
    Modern basic Latin alphabet  
    Portuguese alphabet  
    Spanish alphabet  
BT: Alphabets  
NT: English alphabet

TNR: 7447

Modernist architecture

CN: 6.4 - BT Architecture removed, USE

Modernist art added.

USE: Modernist art

TNR: 1572

Multilingualism

CN: 6.0; 6.4 – Removed BT Language. Added

BT Language proficiency.

UF: Bilingualism

Trilingualism

BT: Language proficiency

NT: First language

Second languages

TNR: 10406

Multiples

CN: 6.4 - BT Integers removed, USE Factors added.

USE: Factors

TNR: 5989

Multiplication tables

CN: 6.4 - BT Tables removed, BT

Multiplication added.

UF: Times tables

BT: Multiplication

TNR: 7991

Narratives

CN: 6.4 - Scope Note edited.

SN: Use for resources that relate a series of events or experiences.

UF: Stories

Story

BT: Literary texts

NT: Personal narratives

TNR: 1164

Negative numbers

CN: 6.4 - BT Number removed, BT Directed numbers added.

BT: Directed numbers

TNR: 5137

Neoclassical architecture

CN: 6.4 – Removed BT Architecture and BT Neoclassicism, added USE Neoclassicism.

USE: Neoclassicism

TNR: 1574

Newtons

CN: 6.4 - BT Force units removed, USE Force units added.

USE: Force units

TNR: 6339

Nonverbal communication

CN: 6.4 - BT Communication (Language) removed, BT Language added.

UF: Body language

Visual communication (Body language)

BT: Language

NT: Facial expressions

Gestures

Sign language

Signals

TNR: 4103

Number

CN: 5.3 - BT Mathematical concepts removed, BT Mathematics added; 6.4 - Changed from Numbers to Number.

UF: Number concepts

Numerals

Numerical literacy

BT: Mathematics

NT: Complex numbers

Directed numbers

Natural numbers

Number operations

Permutations and combinations

Place value

Proportions

Real numbers

Roman numerals

Significant figures

TNR: 1093

Number sentences

CN: 5.3 - BT Sentences and Algebra removed, BT Mathematical formula added; 6.2 - BT Mathematical formulas removed, BT Equations added; 6.4 - BT Equations removed, USE Equations added.

USE: Equations

TNR: 980

Numeracy

CN: 5.3 - BT Mathematics removed, BT Mathematical literacy added; 6.1 - BT Mathematical literacy removed, USE Arithmetic added; 6.2 - USE Number operations removed, USE Numbers added; 6.4 – USE Numbers removed. USE Mathematics added.  
USE: Mathematics  
TNR: 7551

Numerical literacy  
CN: 6.0; 6.1 - Not valid; 6.4 - USE Number added.  
USE: Number  
TNR: 10913

Ordinal data  
CN: 6.2 - BT Data removed, BT Data analysis added; 6.4 - BT Data analysis removed, USE Categorical distributions added.  
USE: Categorical distributions  
TNR: 4824

Ordinal numbers  
CN: 6.4 - BT Number removed, BT Sets (Algebra) added.  
UF: Ordinals  
BT: Sets (Algebra)  
TNR: 8144

Ovals  
CN: 6.4 - BT Curves removed, USE Ellipses added.  
USE: Ellipses  
TNR: 4713

Pascals  
CN: 6.4 - BT Pressure units removed, USE Force units added.  
USE: Force units  
TNR: 8306

Passive resistance  
CN: 6.4 - BT Activism removed, BT Dissent added.  
UF: Pacifists  
BT: Dissent  
TNR: 8244

Perimeters  
CN: 6.4 - BT Length removed, USE Length added.

USE: Length  
TNR: 7482

Permutations and combinations  
CN: 6.4 - Changed from Permutations to Permutations and combinations. BT Functions (Mathematics) removed, BT Number added.  
UF: Counting methods  
BT: Number  
TNR: 6451

Petitions  
CN: 6.4 - BT Activism removed, BT Dissent added.  
BT: Dissent  
TNR: 591

Place value  
CN: 6.1 - BT Numbers removed, BT Decimal numbers added; 6.2 - BT Decimal numbers removed, BT Decimal fractions added; 6.4 - BT Decimal fractions removed, BT Number added.  
UF: Positional numeral systems  
BT: Number  
NT: Bases (Numeral systems)  
Unary numeral system  
TNR: 4882

Planes (Geometry)  
CN: 5.3 - BT Plane geometry removed, BT Geometry added; 6.4 - Changed from Planes to Planes (Geometry).  
BT: Geometry  
NT: Cartesian planes  
Cross sections  
Sectors  
Tessellations  
TNR: 3253

Plant life cycle  
CN: 5.3 - USE Life cycles removed, USE Plant growth added; 6.4 - BT Plant growth removed, BT Plant reproduction added.  
USE: Plant reproduction  
TNR: 7496

Plant structure and function  
CN: 5.3 - Changed from Plant physiology to Structure and function (Plants). BT Botany removed, BT Life added; 6.4 - Changed from

Structure and function (Plants) to Plant structure and function.

SN: Use for resources about the functioning of plants or their parts.

UF: Anatomy and physiology (Plants)

Plant anatomy  
Plant physiology

BT: Life

NT: Allelopathy

Bulbs  
Leaves  
Plant growth  
Plant metabolism  
Plant nutrition  
Plant reproduction  
Plant sap  
Roots (Plants)  
Stems (Plants)  
Transpiration  
Vascular tissues (Plants)

TNR: 1008

Plots (Stories)

CN: 5.0 - BT Performing arts removed, Drama added; 6.2 - BT Drama removed; 6.4 - Changed from Plots to Plots (Stories). Scope note added.

SN: Use for resources about the primary sequence of events in a literary or dramatic work.

UF: Plot lines

Story arcs  
Story lines

BT: Structure (Rhetorical device)

NT: Climaxes

Denouements  
Scenarios  
Subplots  
Synopses

TNR: 3867

Point graphs

CN: 6.4 - BT Graphs removed, USE Dot plots added.

BT: Dot plots

TNR: 6681

Positive numbers

CN: 6.4 - BT Number removed, BT Directed numbers added.

BT: Directed numbers

TNR: 5139

Postal services

CN: 6.4 – Removed BT Communications (Technology). Added BT Distribution networks.

UF: Mail services

Post offices

BT: Distribution networks

NT: Air mail

Courier services  
Postage stamps  
Postal workers  
Postcodes  
Registered post  
Surface mail

TNR: 895

Postmodernist architecture

CN: 6.1 - BT Postmodernism removed; 6.4 - BT Architecture removed, USE Postmodernist art added.

USE: Postmodernist art

TNR: 1576

Power units

CN: 6.4 - BT Units of measurement removed, USE Energy units added.

USE: Energy units

TNR: 6913

Prehistory

CN: 6.3; 6.4 - BT Ancient history removed, BT History added.

BT: History

NT: Bronze Age

Iron Age  
Stone Age

TNR: 11536

Preschool (School year level)

CN: 6.0; 6.4 – Changed from Preschool to Preschool (School year level); BT School year levels removed, BT Early childhood education added.

UF: Pre-prep

Pre-school classes  
Pre-school years

BT: Early childhood education

TNR: 10416

Preschools (Educational institutions)



CN: 6.0; 6.4 – Changed from Preschools to Preschools (Educational institutions). Removed  
BT Educational institutions, added BT Early learning centres.  
BT: Early learning centres  
TNR: 10352

#### Pressure

CN: 5.3 - BT Forces removed, BT Kinetic energy added; 6.4 - BT Kinetic energy removed, BT Kinetic theory added.  
BT: Kinetic theory  
NT: Air pressure  
    Vacuums  
TNR: 2709

#### Primary education

CN: 6.0 - USE Schools removed, BT Levels of education added; 6.4 - BT Levels of education removed, BT School education added.  
UF: Elementary education  
BT: School education  
NT: Junior primary education  
    Upper primary education  
TNR: 8544

#### Prime numbers

CN: 6.4 - BT Natural numbers removed, BT Sequences (Mathematics) added.  
BT: Sequences (Number patterns)  
TNR: 8072

#### Projection (Geometry)

CN: 5.3 - Changed from Projection (Mathematics) to Projection (Algebra). BT Mathematics removed, BT Algebra added; 6.2 - Changed from Projection (Algebra) to Projection (Geometry). BT Algebra removed, BT Transformation (Mathematics) added; 6.4 - BT Transformation (Geometry) removed, BT Geometry added.  
BT: Geometry  
TNR: 7712

#### Proportions

CN: 5.3 - BT Mathematical concepts and BT Visual arts elements removed, BT Mathematics added; 6.4 – BT Mathematics removed, BT Number added.  
UF: Balance (Visual arts)  
BT: Number

NT: Fractions  
    Percentages  
    Pythagoras' theorem  
    Ratios  
    Scale (Proportions)  
    Whole numbers  
TNR: 749

#### Protests

CN: 6.4 - BT Activism removed, BT Dissent added.  
UF: Demonstrations  
BT: Dissent  
TNR: 592

#### Punctuation

CN: 5.0 - BT Language skills removed, Grammar added; 6.1 - BT Symbols removed; 6.4 - BT Grammar removed, BT Language conventions added.  
BT: Language conventions  
NT: Apostrophes (Punctuation)  
    Colons  
    Commas  
    Dashes  
    Dot points  
    Exclamation marks  
    Full stops  
    Hyphens  
    Parentheses  
    Question marks  
    Quotation marks  
    Semicolons  
TNR: 1412

#### Purist architecture

CN: 6.4 - BT Architecture and BT Purism removed, USE Purism added.  
USE: Purism  
TNR: 1577

#### Pythagoras' theorem

CN: 5.3 - BT Theorems removed, BT Trigonometry added; 6.4 - BT Trigonometry removed, BT Proportions added.  
BT: Proportions  
TNR: 8601

#### Queen Anne style

CN: 6.4 - Changed from Queen Anne revival architecture to Queen Anne style. BT Revival architecture removed, USE Revivalism added.  
USE: Revivalism  
TNR: 8614

Range (Species)  
CN: 5.3; 6.4 - Changed from Range (Ecology) to Range (Species).  
UF: Home ranges  
Population distribution (Ecology)  
BT: Populations (Ecology)  
NT: Introduced species  
TNR: 9860

Reasoning  
CN: 6.4 - BT Cognition removed, BT Thinking added.  
UF: Argumentation (Reasoning)  
Dialectics  
Inference  
Vertical thinking  
BT: Thinking  
NT: Causality  
Deductive reasoning  
Fallacy  
Inductive reasoning  
Syllogisms  
Truth  
TNR: 7608

Renaissance architecture  
CN: 6.4 – BT Architecture removed, USE Renaissance art added.  
USE: Renaissance art  
TNR: 1578

Resident action  
CN: 5.3; 6.4 - BT Activism removed, BT Dissent added.  
UF: Resident action groups  
BT: Dissent  
TNR: 9937

Resistance (Activism)  
CN: 5.0 - Modification - NP; 6.4 - USE Activism removed, USE Dissent added.  
USE: Dissent  
TNR: 4011

Reviews (Literary texts)

CN: 5.3 - BT Aesthetics removed; 6.4 – Changed from Reviews to Reviews (Literary texts). Removed BT Criticism.  
SN: Use for resources that review, summarise or analyse a literary text and assesses its appeal and value.  
BT: Literary texts  
NT: Book reviews  
CD-ROM reviews  
Film reviews  
Game reviews  
Theatre reviews  
TNR: 742

Revival architecture  
CN: 6.4 – BT Architecture removed, USE Revivalism added.  
USE: Revivalism  
TNR: 1579

Rococo architecture  
CN: 6.4 – BT Architecture removed, USE Rococo added.  
USE: Rococo  
TNR: 1580

Scales (Measurement)  
CN: 6.4 - BT Units of measurement removed, BT Measurement added.  
SN: Use for resources about different measurement scales, e.g. Beaufort Scale.  
BT: Measurement  
NT: Beaufort scale  
Seismic scales  
TNR: 2331

Scatter graphs  
CN: 6.4 - Changed from Scatter plots to Scatter graphs.  
USE: Scatter plots  
TNR: 8767

Scatter plots  
CN: 6.4 - Changed from Scatter graphs to Scatter plots.  
UF: Scatter diagrams  
Scatter graphs  
BT: Graphs  
NT: Line of best fit  
TNR: 6682

Scheduling  
CN: 6.4 - Changed from Timetables to Scheduling.  
BT: Data representation  
TNR: 4838

School year levels  
CN: 6.0; 6.4 - BT Levels of education removed, BT School education added.  
UF: Grade levels  
Year levels  
BT: School education  
NT: Year 1  
Year 10  
Year 11  
Year 12  
Year 13  
Year 2  
Year 3  
Year 4  
Year 5  
Year 6  
Year 7  
Year 8  
Year 9  
TNR: 10410

Secondary education  
CN: 6.0 - USE Schools removed, BT Levels of education added; 6.4 - BT Levels of education removed, BT School education added.  
UF: High school education  
BT: School education  
NT: Lower secondary education  
Senior secondary education  
TNR: 8772

Seconds  
CN: 6.4 - BT Time units removed, USE Time units added.  
USE: Time units  
TNR: 8795

Sedimentation  
CN: 5.3 - BT Geodynamics moved, BT Earth movements added.  
UF: Deposition (Sediment)  
Diagenesis  
Sediments  
BT: Earth movements

NT: Mud  
Varves  
TNR: 4975

Self-evaluation  
CN: 6.0; 6.4 – Removed BT Evaluation methods. Added BT Self-management.  
UF: Self-appraisal  
Self-assessment  
BT: Self-management  
TNR: 10318

Sensation  
USE: Perception  
TNR: 8805  
CN: 6.4 - USE Senses (Perception) removed, USE Perception added.

Senses (Perception)  
USE: Perception  
TNR: 6812  
CN: 5.3 - BT Physiology removed, BT Structure and function (Animals) added; 6.4 – Changed from Senses to Senses (Perception). Removed BT Structure and function (Animals), USE Perception added.

Sensory deprivation  
BT: Stimulation  
TNR: 8337  
CN: 5.3 - Remove BT Senses, BT not yet identified; 6.4 – Removed BT Senses (Perception). Added BT Stimuli.

Sequences (Number patterns)  
CN: 6.4 – Changed from Sequences (Mathematics) to Sequences (Number patterns).  
UF: Mathematical sequences  
Numerical sequences  
BT: Number patterns  
NT: Fibonacci sequence  
Figurate numbers  
Prime numbers  
Series  
TNR: 6103

Sets (Algebra)  
CN: 6.4 - Changed from Sets (Mathematics) to Sets (Algebra). BT Mathematics removed, BT Algebra added.  
BT: Algebra

NT: Cardinality  
Complement (Sets)  
Equivalent sets  
Intersection (Sets)  
Karnaugh maps  
Ordinal numbers  
Tree diagrams  
Union (Sets)  
Venn diagrams  
TNR: 2774

Sign language  
CN: 6.4 - BT Language removed, BT Nonverbal communication added.  
BT: Nonverbal communication  
TNR: 7410

Signals  
CN: 6.4 – Removed BT Communication (Language). Added BT Nonverbal communication.  
UF: Signalling  
BT: Nonverbal communication  
TNR: 4105

Size  
CN: 5.3 - BT Geometric concepts removed, BT Geometry added; 6.2 - BT Geometry removed, USE Measurement added; 6.4 - USE Measurement removed, USE Dimensions added.  
USE: Dimensions  
TNR: 2416

Size perception  
CN: 6.4 - BT Perception removed, BT Vision added.  
BT: Vision  
TNR: 8336

Smell  
UF: Olfaction  
Olfactory perception  
BT: Perception  
RT: Nose  
TNR: 8128  
CN: 6.4 - BT Senses (Perception) removed, BT Perception added.

Social action  
CN: 6.3; 6.4 - USE Activism removed, USE Dissent added.

USE: Dissent  
TNR: 11613

Space perception  
CN: 6.4 - BT Perception removed, BT Vision added.  
UF: Spatial awareness  
Spatial perception  
BT: Vision  
NT: Depth perception  
TNR: 4985

SPF ratings  
CN: 6.4 - BT Units of measurement removed, BT Sun protection added.  
UF: Sun protection factor ratings  
BT: Sun protection  
TNR: 8936

Square metres  
CN: 6.4 - BT Area units removed, USE Area units added.  
USE: Area units  
TNR: 8952

Squares (Indices)  
CN: 5.3 - Changed from Squares (Indices) to Squares (Arithmetic). BT Indices and BT Mathematical concepts added, BT Arithmetic added; 6.4 – Changed from Squares (Arithmetic) to Squares (Indices). BT Number operations removed. BT Integral indices added.  
BT: Integral indices  
NT: Difference of squares  
Perfect squares  
TNR: 5073

Standard deviation  
CN: 6.0; 6.4 - USE Variance analysis removed, BT Measures of spread added.  
BT: Measures of spread  
TNR: 10851

States and territories  
CN: 5.3 - BT Places removed, BT Countries added; 6.4 - BT Countries removed, USE State government added.  
USE: State government  
TNR: 8422

Storytelling

CN: 5.0 - BT Performing arts removed, Drama added; 6.0 - BT Drama removed, BT Creative activities added; 6.4 - BT Creative activities removed, BT Spoken texts added.

UF: Storytimes  
BT: Creative activities  
NT: Korero paki  
TNR: 3654

Subjects (Courses)

CN: 6.0; 6.4 - Changed from Subjects to Subjects (Courses).  
USE: Courses  
TNR: 10602

Sun protection

CN: 6.4 - Changed from Sun protection gear to Sun protection; BT Protective clothing removed, BT Safety added.  
BT: Safety  
NT: SPF ratings  
    Sunglasses  
    Sunscreens  
TNR: 6793

Supplementary angles

CN: 6.4 - BT Angles removed, BT Adjacent angles added.  
BT: Adjacent angles  
TNR: 1193

Symbols

CN: 6.2 - BT Rhetorical devices and BT Semiotics removed, BT Semantics added; 6.4 - BT Semantics removed, BT Writing systems added.  
UF: Signs (Symbols)  
BT: Writing systems  
NT: Ideograms  
    Logograms  
    Mathematical notation  
    Pictographs  
TNR: 1660

Tally charts

CN: 6.4 - BT Tables removed, USE Tallies added.  
USE: Tallies  
TNR: 8989

Tangent (Functions)

CN: 6.4 - Changed from Tangents to Tangent (Functions). BT Angles and BT Circles removed, BT Trigonometric functions added.

BT: Angles  
    Circles  
    Trigonometric functions  
TNR: 1194

Taste

CN: 6.4 - BT Senses (Perception) removed, BT Perception added.  
BT: Perception  
TNR: 8806

Telecommunications

CN: 6.4 - BT Communications (Technology) removed, BT Information technology added.  
UF: Communication networks  
    Communications (Technology)  
    Digital communications  
BT: Information technology  
NT: Computer networks  
    Email  
    Facsimile transmission  
    Media  
    Messaging  
    Telegraphy  
    Telephones  
    Two way radios  
TNR: 2836

Time series

CN: 6.4 - Changed from Time series data to Time series. BT Statistical data removed, BT Data analysis added.  
UF: Trend lines  
BT: Data analysis  
TNR: 8970

Tonnes

CN: 6.4 - BT Mass units removed, USE Mass units added.  
USE: Mass units  
TNR: 7766

Topographic maps

CN: 6.4 - BT Maps removed, USE Relief maps added.  
USE: Relief maps  
TNR: 4388

### Topology

CN: 6.4 - BT Geometry removed, USE Transformation (Geometry) added.  
USE: Transformation (Geometry)  
TNR: 6567

### Touch

BT: Perception  
RT: Skin  
TNR: 8807  
CN: 6.4 - BT Senses (Perception) removed, BT Perception added.

### Transformational grammar

CN: 5.3; 6.4 - BT Grammar removed, BT Meanings (Words) added.  
UF: Transformations (Grammar)  
BT: Meanings (Words)  
TNR: 9744

### Transpiration

CN: 5.3 - BT Plant physiology removed; 6.4 - BT Plant water relationship removed, BT Plant structure and function added.  
BT: Plant structure and function  
TNR: 8444

### Tree diagrams

CN: 5.3 - BT Data representation removed; 6.4 - BT Diagrams removed BT Sets (Algebra) added.  
UF: Markov chains  
BT: Sets (Algebra)  
TNR: 4839

### Tree rings

CN: 5.3 - BT Archaeological dating removed, BT Incremental dating added. Changed from Dendrochronology to Tree rings; 6.4 - BT Incremental dating removed, BT Trees added.  
UF: Dendrochronology  
BT: Trees  
TNR: 4840

### Triangulation

CN: 5.3 - BT Geometric concepts removed, BT Geometry added; 6.4 - Removed BT Geometry. Added BT Location (Geometry).  
BT: Location (Geometry)  
TNR: 6558

### Trigonometric functions

CN: 6.2 - BT Geometry removed, BT Measurement added; 6.4 - Changed from Trigonometry to Trigonometric functions.  
UF: Trigonometry

BT: Measurement

NT: Circular functions

Cosecant

Cosine

Cotangent

Periodic functions

Tangent (Functions)

TNR: 3071

### Truth

CN: 6.1 - BT Philosophy removed, BT Logic added; 6.4 - BT Logic removed, BT Reasoning added.

BT: Reasoning

TNR: 6002

### Underground architecture

CN: 6.4 - BT Architecture removed, USE Underground buildings added.  
USE: Underground buildings  
TNR: 1584

### Utopian art

CN: 6.4 - Changed from Utopian architecture to Utopian art. USE Futurist architecture removed, USE Futurist art added.

USE: Futurist art

TNR: 6472

### UV index

CN: 6.4 - BT Units of measurement removed, USE Ultraviolet rays added.

USE: Ultraviolet rays

TNR: 9008

### Variance

CN: 6.2 - BT Statistics removed, BT Data and probability added; 6.4 - Changed from Variance analysis to Variance. BT Data and probability removed, BT Measures of spread added.

UF: Statistical dispersion

Statistical variability

BT: Measures of spread

TNR: 6200

### Varves

CN: 5.3; 6.4 - BT Incremental dating removed,  
BT Sedimentation added.  
BT: Sedimentation  
TNR: 9559

#### Verbal communication

CN: 6.4 - BT Communication (Language)  
removed, USE Language added.  
USE: Language  
TNR: 4106

#### Vernacular architecture

CN: 6.4 - BT Architecture removed, USE Folk  
art added.  
USE: Folk art  
TNR: 1585

#### Vertices

CN: 5.3 - BT Mathematical concepts removed,  
BT Angles added; 6.4 - BT Angles removed,  
USE Points added.  
USE: Points  
TNR: 4459

#### Viewing

CN: 6.0 - Scope note added; 6.2 - BT Literacy  
removed, USE Visual learning added; 6.3 - USE  
Visual learning removed, BT Learning processes  
added; 6.4 - Changed from Visual literacy to  
Viewing. BT Learning processes removed, BT  
Literacy added.  
SN: Use for resources about a group of  
competencies that allows humans to discriminate  
and interpret the visible action, objects, and/or  
symbols, natural or constructed, that they  
encounter in the environment (e.g., television,  
films, paintings, etc.).  
UF: Visual literacy  
BT: Literacy  
TNR: 4585

#### Vision

CN: 6.4 - BT Senses removed, BT Perception  
added.  
UF: Sight  
Visual perception  
BT: Perception  
NT: Binocular vision  
Colour vision  
Monocular vision  
Night vision

Peripheral vision  
Size perception  
Space perception  
Visual acuity

TNR: 2433

#### Visionary art

CN: 6.4 - Changed from Visionary architecture  
to Visionary art. USE Futurist architecture  
removed, USE Futurist art added.  
USE: Futurist art  
TNR: 6473

#### Visual communication (Body language)

CN: 6.4 – Changed from Visual communication  
to Visual communication (Body language).  
Removed BT Communication (Language).  
Added USE Nonverbal communication.  
USE: Nonverbal communication  
TNR: 4107

#### Vocabulary

CN: 6.4 - BT Lexicology removed, BT  
Meanings (Words) added.  
BT: Meanings (Words)  
TNR: 7442

#### Volts

CN: 6.4 - BT Force units removed, USE Voltage  
added.  
USE: Voltmeters  
TNR: 5604

#### Volume (Capacity)

CN: 5.3 - Changed from Volume (Geometric  
concepts) to Volume (Geometry). BT Geometric  
concepts removed, BT Geometry added; 6.4 -  
Changed from Volume (Geometry) to Volume  
(Capacity). BT Geometry removed, BT  
Measurement added.  
UF: Capacity  
BT: Measurement  
TNR: 6559

#### Watts

CN: 6.4 - BT Power units removed, USE Energy  
units added.  
USE: Energy units  
TNR: 5635

#### Whole numbers

CN: 6.4 - BT Real numbers removed, BT  
Proportions added.  
BT: Proportions  
TNR: 5113

Width  
CN: 6.4 - USE Breath removed, USE Length  
added.  
USE: Length  
TNR: 2795

Writers  
CN: 6.4 - USE Composers (Texts) removed, USE  
Authors added.  
USE: Authors  
TNR: 4160

Written communication  
CN: 6.4 - BT Communication (Language)  
removed, USE Composing (Texts) added.  
USE: Composing (Texts)  
TNR: 4108

Year 0  
CN: 6.0; 6.4 - BT School year levels removed,  
USE Kindergarten (School year level) added.  
USE: Kindergarten (School year level)  
TNR: 10417

Zero  
CN: 6.4 - BT Number removed, BT Integers  
added.  
BT: Integers  
TNR: 8146



## 5.0 Hierarchy

The full hierarchy for Mathematics and selected branches.

### 5.1 Mathematics

#### 5.1.1 Top three levels

#### **Mathematics**

##### **NT1: Algebra**

- NT2: Algebraic terms
- NT2: Equations
- NT2: Functions and relations
- NT2: Matrices
- NT2: Number patterns
- NT2: Proofs
- NT2: Sets (Algebra)
- NT2: Vectors

##### **NT1: Geometry**

- NT2: Angles
- NT2: Lines
- NT2: Location (Geometry)
- NT2: Planes (Geometry)
- NT2: Points
- NT2: Projection (Geometry)
- NT2: Shapes (Geometry)
- NT2: Solids (Geometry)
- NT2: Transformation (Geometry)

##### **NT1: Measurement**

- NT2: Area
- NT2: Dimensions
- NT2: Scales (Measurement)
- NT2: Systems of measurement
- NT2: Time
- NT2: Trigonometric functions
- NT2: Units of measurement
- NT2: Volume (Capacity)

##### **NT1: Number**

- NT2: Complex numbers
- NT2: Directed numbers
- NT2: Natural numbers
- NT2: Number operations
- NT2: Permutations and combinations
- NT2: Place value
- NT2: Proportions
- NT2: Real numbers
- NT2: Roman numerals
- NT2: Significant figures
- NT1: Statistics and probability**
- NT2: Central tendency
- NT2: Data analysis
- NT2: Data representation
- NT2: Distributions (Statistics)
- NT2: Probability
- NT2: Random numbers
- NT2: Sample space
- NT2: Statistical data
- NT2: Statistical frequency

### 5.1.2 Full hierarchy

#### Mathematics

##### NT1: Algebra

- NT2: Algebraic terms
  - NT3: Like terms
- NT2: Equations
  - NT3: Coefficients
  - NT3: Differential equations
  - NT3: Inequations
  - NT3: Integral equations
  - NT3: Linear equations
  - NT3: Polynomials
    - NT4: Binomials
    - NT4: Quadratic expressions
    - NT4: Trinomial expressions
- NT3: Pronumerals
- NT3: Quadratic equations
  - NT4: Completing the square
- NT3: Simultaneous equations
- NT2: Functions and relations
  - NT3: Calculus
    - NT4: Limits
    - NT5: Infinity
  - NT3: Differentiation
    - NT4: Stationary points

- NT5: Extrema
- NT5: Points of inflection
- NT3: Exponential functions
- NT3: Function graphs
- NT3: Iteration
- NT4: Recursion
- NT3: Linear functions
- NT3: Logarithmic functions
- NT3: Logarithmic graphs
- NT3: Quadratic functions
- NT3: Reciprocal functions
- NT2: Matrices
- NT3: Arrays
- NT2: Number patterns
- NT3: Amicable numbers
- NT3: Sequences (Number patterns)
- NT4: Fibonacci sequence
- NT4: Figurate numbers
- NT4: Prime numbers
- NT4: Series
- NT5: Arithmetic series
- NT5: Geometric series
- NT2: Proofs
- NT2: Sets (Algebra)
- NT3: Cardinality
- NT3: Complement (Sets)
- NT3: Equivalent sets
- NT3: Intersection (Sets)
- NT3: Karnaugh maps
- NT3: Ordinal numbers
- NT3: Tree diagrams
- NT3: Union (Sets)
- NT3: Venn diagrams
- NT2: Vectors
- NT1: Geometry**
- NT2: Angles
- NT3: Acute angles
- NT3: Adjacent angles
- NT4: Complementary angles
- NT4: Supplementary angles
- NT3: Angles of elevation
- NT3: Cointerior angles
- NT3: Corresponding angles
- NT3: Exterior angles
- NT3: Interior angles
- NT3: Obtuse angles
- NT3: Opposite angles
- NT3: Reflex angles
- NT3: Revolution (Angles)
- NT3: Right angles
- NT3: Sine

- NT3: Straight angles
- NT3: Tangent (Functions)
- NT2: Lines
  - NT3: Bisectors
  - NT3: Contour lines
  - NT3: Curves
    - NT4: Camber
    - NT4: Closed curves
      - NT5: Simple closed curves
    - NT4: Ellipses
    - NT4: Parabolas
  - NT3: Gradients
  - NT3: Intersecting lines
    - NT4: Concurrent lines
  - NT3: Parallel lines
  - NT3: Perpendicular lines
  - NT3: Straight lines
  - NT3: Tangent lines
- NT2: Location (Geometry)
  - NT3: Coordinates
    - NT4: Axes
    - NT4: Cartesian coordinates
    - NT4: Grids
      - NT5: Grid references
    - NT4: Polar coordinates
  - NT3: Direction (Geometry)
  - NT3: Triangulation
- NT2: Planes (Geometry)
  - NT3: Cartesian planes
  - NT3: Cross sections
  - NT3: Sectors
  - NT3: Tessellations
- NT2: Points
  - NT3: Collinear points
  - NT3: Lattices
  - NT3: Loci
- NT2: Projection (Geometry)
- NT2: Shapes (Geometry)
  - NT3: Bases (Mathematics)
  - NT3: Circles
    - NT4: Arcs
    - NT4: Centres
    - NT4: Chords (Lines)
    - NT4: Concentric circles
    - NT4: Diameter
    - NT4: Radius
    - NT4: Secants
    - NT4: Segments
    - NT4: Semicircles
    - NT4: Tangent (Functions)
  - NT3: Conics

- NT4: Conic sections
  - NT5: Ellipses
  - NT5: Hyperbolas
  - NT5: Parabolas
- NT3: Crescents
- NT3: Nets
- NT3: Polygons
  - NT4: Concave polygons
  - NT4: Convex polygons
  - NT4: Decagons
  - NT4: Dodecagons
  - NT4: Heptagons
  - NT4: Hexagons
  - NT4: Irregular polygons
  - NT4: Nonagons
  - NT4: Octagons
  - NT4: Pentagons
  - NT4: Polyminos
  - NT4: Quadrilaterals
    - NT5: Kites (Mathematics)
    - NT5: Parallelograms
    - NT5: Rectangles
    - NT5: Rhombuses
    - NT5: Squares (Shapes)
    - NT5: Trapeziums
  - NT4: Regular polygons
  - NT4: Sides
  - NT4: Stars (Polygons)
  - NT4: Triangles (Shapes)
    - NT5: Acute angled triangles
    - NT5: Equilateral triangles
    - NT5: Isosceles triangles
    - NT5: Obtuse angled triangles
    - NT5: Right angled triangles
      - NT6: Hypotenuse
    - NT5: Scalene triangles
- NT2: Solids (Geometry)
  - NT3: Bases (Mathematics)
  - NT3: Cones (Solids)
  - NT3: Cylinders
  - NT3: Edges
  - NT3: Faces (Mathematics)
  - NT3: Polyhedrons
    - NT4: Archimedean solids
    - NT4: Dodecahedrons
    - NT4: Icosahedrons
    - NT4: Johnson solids
    - NT4: Octahedrons
    - NT4: Platonic solids
    - NT4: Pyramids
      - NT5: Right pyramids

- NT5: Triangular pyramids
- NT4: Snub nosed polygons
- NT4: Tetrahedrons
- NT3: Prisms
  - NT4: Cubes
  - NT4: Cuboids
  - NT4: Right prisms
  - NT4: Triangular prisms
- NT3: Spheres
  - NT4: Spherical triangles
- NT3: Spheroids
- NT2: Transformation (Geometry)
  - NT3: Congruence
    - NT4: Symmetry
      - NT5: Line symmetry
      - NT5: Rotational symmetry
      - NT5: Self-similarity
    - NT6: Fractals
  - NT3: Dilation
  - NT3: Reflection (Geometry)
  - NT3: Rotation
  - NT3: Translation (Geometry)

**NT1: Measurement**

- NT2: Area
  - NT3: Surface area
- NT2: Dimensions
  - NT3: Distance
  - NT3: Length
    - NT4: Circumference
    - NT4: Height (Length)
- NT2: Scales (Measurement)
  - NT3: Beaufort scale
  - NT3: Seismic scales
- NT2: Systems of measurement
  - NT3: Imperial measurement
  - NT3: Metric system
- NT2: Time
  - NT3: Chronological order
  - NT3: Elapsed time
- NT2: Trigonometric functions
  - NT3: Circular functions
    - NT3: Cosecant
    - NT3: Cosine
    - NT3: Cotangent
    - NT3: Periodic functions
    - NT3: Tangent (Functions)
- NT2: Units of measurement
  - NT3: Amount of substance
  - NT3: Amperes
  - NT3: Angle units
    - NT4: Degrees (Angles)

NT4: Gradians  
 NT4: Radians  
 NT3: Area units  
 NT3: Density units  
     NT4: Grams per cubic metre  
 NT3: Energy units  
     NT4: Calories  
     NT4: Kilojoules  
 NT3: Exposure levels  
 NT3: Fathoms  
 NT3: Force units  
 NT3: Hertz  
 NT3: Length units  
     NT4: Centimetres  
     NT4: Millimetres  
 NT3: Mass units  
 NT3: Ohms  
 NT3: Pressure units  
 NT3: Temperature units  
     NT4: Celsius scale  
     NT4: Fahrenheit scale  
     NT4: Kelvin scale  
 NT3: Time units  
     NT4: Centuries  
     NT4: Day  
     NT4: Decades  
     NT4: Hours  
     NT4: Months  
     NT4: Night  
     NT4: Weeks  
     NT4: Years  
 NT3: Velocity units  
     NT4: Centimetres per second  
 NT3: Volume units  
     NT4: Cubic centimetres  
     NT4: Cubic decimetres  
 NT2: Volume (Capacity)  
**NT1: Number**  
 NT2: Complex numbers  
 NT2: Directed numbers  
     NT3: Negative numbers  
     NT3: Positive numbers  
 NT2: Natural numbers  
     NT3: Composite numbers  
 NT2: Number operations  
     NT3: Addition  
     NT3: Counting  
     NT3: Decomposition (Arithmetic)  
         NT4: Factorisation  
     NT3: Division  
         NT4: Remainders

- NT3: Estimation
  - NT4: Extrapolation
  - NT4: Linear regression
  - NT4: Rounding
- NT3: Factorials
- NT3: Indices
  - NT4: Bases (Indices)
  - NT4: Fractional indices
  - NT4: Integral indices
    - NT5: Squares (Indices)
      - NT6: Difference of squares
      - NT6: Perfect squares
  - NT4: Negative indices
  - NT4: Roots (Mathematics)
    - NT5: Cube roots
    - NT5: Square roots
- NT3: Logarithms
- NT3: Mental calculations
- NT3: Multiplication
  - NT4: Factors
    - NT5: Inverses
    - NT5: Prime factors
  - NT4: Multiplication tables
- NT3: Order of operations
  - NT4: Parentheses
- NT3: Subtraction
- NT2: Permutations and combinations
- NT2: Place value
  - NT3: Bases (Numeral systems)
    - NT4: Binary system
    - NT4: Decimal system
      - NT5: Decimal expansions
    - NT4: Duodecimal system
    - NT4: Hexadecimal system
    - NT4: Octal system
    - NT4: Senary system
    - NT4: Ternary system
  - NT3: Unary numeral system
- NT2: Proportions
  - NT3: Fractions
    - NT4: Decimal fractions
    - NT4: Denominators
    - NT4: Eighths
    - NT4: Equivalent fractions
    - NT4: Fifths
    - NT4: Halves
    - NT4: Improper fractions
    - NT4: Numerators
    - NT4: Proper fractions
    - NT4: Quarters
    - NT4: Thirds



- NT3: Percentages
- NT3: Pythagoras' theorem
- NT3: Ratios
- NT3: Scale (Proportions)
- NT3: Whole numbers
- NT2: Real numbers
  - NT3: Integers
    - NT4: Zero
  - NT3: Irrational numbers
    - NT4: e
    - NT4: pi
    - NT4: Surds
  - NT3: Rational numbers
- NT2: Roman numerals
- NT2: Significant figures
- NT1: Statistics and probability**
  - NT2: Central tendency
    - NT3: Mean
    - NT3: Median
    - NT3: Mode
  - NT2: Data analysis
    - NT3: Bivariate data
    - NT3: Data continuity
    - NT3: Factor analysis
    - NT3: Feature analysis
    - NT3: Measures of spread
      - NT4: Inter-quartile range
      - NT4: Range (Statistics)
      - NT4: Standard deviation
      - NT4: Variance
    - NT3: Multivariate analysis
    - NT3: Time series
  - NT2: Data representation
    - NT3: Box plots
    - NT3: Diagrams
      - NT4: Arrow diagrams
      - NT4: Block diagrams
      - NT4: Flow charts
      - NT4: Network diagrams
    - NT3: Dot plots
      - NT4: Point graphs
    - NT3: Graphs
      - NT4: Climographs
      - NT4: Column graphs
        - NT5: Bar charts
      - NT4: Cumulative frequency graphs
      - NT4: Frequency polygons
      - NT4: Histograms
      - NT4: Line graphs
        - NT5: Distance time graphs
      - NT4: Picture graphs

- NT4: Pie charts
- NT4: Scatter plots
  - NT5: Line of best fit
- NT4: Semilogarithmic graphs
- NT4: Ternary graphs
- NT3: Key (Data representation)
- NT3: Number lines
- NT3: Scheduling
- NT3: Spreadsheets
- NT3: Stem and leaf plots
- NT3: Tables
- NT3: Tallies
- NT2: Distributions (Statistics)
  - NT3: Binomial distributions
  - NT3: Categorical distributions
  - NT3: Continuous distributions
  - NT3: Data types
  - NT3: Discrete distributions
  - NT3: Geometric distribution
  - NT3: Normal distributions
  - NT3: Poisson distributions
- NT2: Probability
- NT2: Random numbers
- NT2: Sample space
- NT2: Statistical data
- NT2: Statistical frequency

## 5.2 Language

First three levels of the Language hierarchy.

### Language

#### **NT1: Composing (Texts)**

- NT2: Adaptations (Writing)
- NT2: Authenticity (Texts)
- NT2: Drafting
- NT2: Editing
- NT2: Illustration
- NT2: Journalism
- NT2: Notetaking
- NT2: Report writing
- NT2: Rhetorical devices
- NT2: Scriptwriting
- NT2: Writing materials

#### **NT1: Language conventions**

- NT2: Capitalisation
- NT2: Grammar
- NT2: Handwriting
- NT2: Punctuation
- NT2: Spelling

#### **NT1: Listening**

#### **NT1: Literacy**

- NT2: Functional literacy
- NT2: Language proficiency
- NT2: Viewing

#### **NT1: Literature**

- NT2: Children's literature
- NT2: Drama
- NT2: Genres
- NT2: Poetry
- NT2: Prose
- NT2: Regional literature
- NT2: Sacred literature

#### **NT1: Natural languages**

- NT2: Aboriginal languages
- NT2: Albanian language
- NT2: Arabic language
- NT2: Armenian language
- NT2: Bengali language
- NT2: Braille
- NT2: Chinese languages
- NT2: Classical Greek language
- NT2: Colloquial language

NT2: Creoles  
NT2: Croatian language  
NT2: Czech language  
NT2: Dialects  
NT2: Dutch language  
NT2: English language  
NT2: Esperanto  
NT2: Estonian language  
NT2: Filipino language  
NT2: French language  
NT2: German language  
NT2: Greek language  
NT2: Hebrew language  
NT2: Hindi language  
NT2: Hungarian language  
NT2: Idioms  
NT2: Indonesian language  
NT2: Italian language  
NT2: Japanese language  
NT2: Khmer language  
NT2: Korean language  
NT2: Latin language  
NT2: Latvian language  
NT2: Lithuanian language  
NT2: Macedonian language  
NT2: Malaysian language  
NT2: Maltese language  
NT2: Maori language  
NT2: Pacific Island languages  
NT2: Persian language  
NT2: Polish language  
NT2: Portuguese language  
NT2: Romanian language  
NT2: Russian language  
NT2: Samoan language  
NT2: Serbian language  
NT2: Slovenian language  
NT2: Spanish language  
NT2: Swedish language  
NT2: Tamil language  
NT2: Thai language  
NT2: Tibetan language  
NT2: Tokelauan language  
NT2: Tongan language  
NT2: Torres Strait Islander languages  
NT2: Turkish language

NT2: Ukrainian language

NT2: Vietnamese language

**NT1: Nonverbal communication**

NT2: Facial expressions

NT2: Gestures

NT2: Sign language

NT2: Signals

**NT1: Reading**

NT2: Comprehension

NT2: Oral reading

NT2: Scanning

NT2: Skimming

NT2: Speed reading

**NT1: Speech**

NT2: Accents (Speech)

NT2: Intonation

NT2: Pitch (Sound)

NT2: Pronunciation

NT2: Stress (Speech)

NT2: Syllables

**NT1: Text types**

NT2: Factual texts

NT2: Literary texts

**NT1: Texts**

NT2: Imaginative texts

NT2: Interactive texts

NT2: Media texts

NT2: Multimodal texts

NT2: Quotations

NT2: Scripts

NT2: Spoken texts

NT2: Visual texts

NT2: Written texts

**NT1: Writing systems**

NT2: Alphabets

NT2: Characters (Writing systems)

NT2: Consonant alphabets

NT2: Diacritics

NT2: Logographic writing systems

NT2: Syllabaries

NT2: Syllabic alphabets

NT2: Symbols

NT2: Transliteration

NT2: Typography

## 5.3 History

Full History hierarchy.

### **History**

#### **NT1: Ancient history**

NT2: Bronze Age

NT2: Classical antiquity

#### **NT1: Archaeology**

NT2: Antiquities

NT2: Archaeological dating

NT3: Incremental dating

NT4: Ice cores

NT3: Pollen analysis

NT3: Potassium-argon dating

NT3: Radiometric dating

NT4: Potassium-argon dating

NT4: Radiocarbon dating

NT2: Archaeological sites

NT2: Excavations

NT2: Marine archaeology

NT2: Treasure

#### **NT1: Geological time**

NT2: Eons

NT3: Hadean eon

NT3: Phanerozoic eon

NT3: Proterozoic eon

NT2: Epochs

NT3: Eocene epoch

NT3: Holocene epoch

NT3: Miocene epoch

NT3: Oligocene epoch

NT3: Paleocene epoch

NT3: Pleistocene epoch

NT3: Pliocene epoch

NT2: Eras

NT3: Archaeozoic era

NT3: Cenozoic era

NT3: Mesozoic era

NT3: Palaeozoic era

NT3: Proterozoic era

NT2: Periods (Geology)

NT3: Cambrian period

NT3: Carboniferous period

NT3: Cretaceous period

NT3: Devonian period

NT3: Jurassic period

- NT3: Mississippian period
- NT3: Neocene period
- NT3: Ordovician period
- NT3: Palaeogene period
- NT3: Pennsylvanian period
- NT3: Permian period
- NT3: Quaternary period
- NT3: Silurian period
- NT3: Triassic period
- NT3: Vendian period

**NT1: Heritage**

- NT2: Natural heritage
- NT3: Fossils
- NT2: World heritage listing

**NT1: Historic sites**

**NT1: Historiography**

**NT1: Lexicology**

**NT1: Local history**

**NT1: Maritime history**

**NT1: Middle Ages**

**NT1: Modern history**

**NT1: Oral history**

**NT1: Personal histories**

**NT1: Prehistory**

- NT2: Bronze Age
- NT2: Iron Age
- NT2: Stone Age

**NT1: Religious history**

**NT1: Renaissance**

**NT1: Social history**

**NT1: World history**

- NT2: Aboriginal history
- NT3: Stolen generations
- NT2: American history
- NT2: Australian history
- NT3: Shared history
- NT2: Cambodian history
- NT2: Chilean history
- NT2: Chinese history
- NT2: Cuban history
- NT2: Egyptian history
- NT2: English history
- NT2: French history
- NT2: German history
- NT2: Greek history
- NT2: Indian history

NT2: Indonesian history  
NT2: Iranian history  
NT2: Irish history  
NT2: Japanese history  
NT2: Middle East history  
NT2: New Zealand history  
NT2: Russian history  
NT2: South African history  
NT2: Torres Strait Islander history  
NT2: Vietnamese history



## 6.0 Not valid terms

Previously approved terms, invalidated.

International Polar Year

Petrarchan sonnets

Pi characters

Semantic phonetic compounds

## 7.0 Appendix

### 7.1 Proportion of terms by level

A common issue for thesaurus management is “how many levels” should be in the hierarchy. This, together with the number of ‘top terms’ together indicate the depth and breadth of concepts covered. Thesaurus dimensions should match the breadth, specificity and complexity of concepts located in user content. Search interface issues are also a consideration; the ten ScOT Top Terms are a good starting point for top-down browsing both in the public thesaurus interface and within website navigation systems<sup>1</sup>.

Targets for hierarchy depth are sometimes arbitrarily assigned in thesaurus management guidelines (e.g. “between 5 and 7”). An alternative approach is to manage and report the proportion of terms at each level. Details of how many levels a thesaurus ‘drills down’ should be presented within the context of where most indexing terms are located.

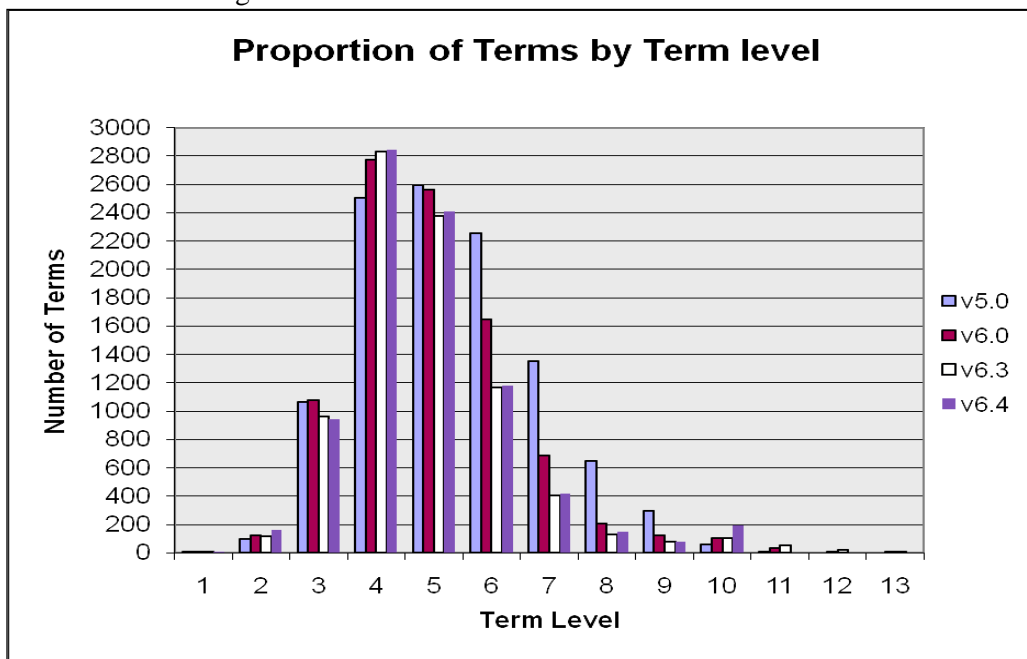


Figure 1 Proportion of terms by level

<sup>1</sup> See “Top Terms” at <http://scot.curriculum.edu.au/advanced.htm>; “Browse by topic” at <http://www.scootle.edu.au/ec/p/home>.

In figure one there is little change in the hierarchy between v.6.3 and v6.4. v6.3 and previous releases performed most of the work of drawing-up terms within the top 5 and 6 levels. While the hierarchy extends in some branches to 13 levels, the proportion of terms in these areas are increasingly rare by v6.3. In v6.4, the deepest terms are at the 10<sup>th</sup> level (see Figure 2).

## 7.2 Percentage of terms within levels 5 and 6

In v6.3 and v6.4, about 76% of terms fall within the top 5 levels. This compares with 74% in v6.0 and 58% in v5.0. This represents a trend towards a more even triangular shape, where each term branches out to not-too-few but not-too-many narrow terms. Balancing the number of NT references for each term enhances browsing to relevant topics without limiting a multi-faceted approach to dividing concepts.

Term level	v.5	v5.2	v5.3	v6.0	v6.2	v6.3	v6.4
1	8	9	9	10	10	10	10
2	96	120	116	123	131	119	160
3	1064	1055	990	1081	955	964	944
4	2505	2522	2417	2771	2820	2829	2847
5	2597	2601	2398	2560	2370	2378	2412
6	2254	2199	1666	1648	1127	1167	1183
7	1356	1247	733	690	402	408	416
8	649	574	221	206	131	134	150
9	297	213	135	124	80	78	79
10	60	34	108	105	102	106	192
11	7	6	37	37	41	54	
12			4	4	4	22	
13			4	4	3	7	
<b>Total terms</b>	10893	10580	8838	8838	8176	8276	8393
<b>% in top 5 levels</b>	57.56%	59.61%	67.10%	74.06%	76.88%	76.12%	75.93%
<b>% in top 6 levels</b>	78.25%	80.40%	85.95%	92.70%	90.67%	90.22%	90.03%

Figure 2 Percentage of terms within levels 5 and 6

## 7.3 Non-preferred term rates

Non-preferred terms (also called entry terms or see references) increase entry to concepts by managing ambiguity between synonymous or near-synonymous concepts. In v6.4, the proportion of non-preferred terms continues to increase. This trend reflects both addition of new non-preferred terms and the consolidation of preferred terms that are used to index similar concepts.

	v5.0	v6.0	v6.3	v6.4
Top Terms	8	10	10	10
Total terms	8,966	10,321	10,792	11,119
Preferred	7,083	7,666	7,569	7,568
Non-preferred	1,883	2,655	3,223	3,554
% Non-preferred	21%	25.7%	29.9%	32%

**Figure 3 Preferred, Non-preferred and Total terms**