



ScOTv6.4

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

Report prepared by
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Contents

1.0	Introduction.....	4
1.1	Purpose.....	4
1.2	Audience.....	4
1.3	Background.....	4
2.0	Web Service updates vs. Version updates	4
3.0	Approved terms	6
4.0	Updated terms	22
5.0	Hierarchy	49
5.1	Mathematics.....	49
5.1.1	Top three levels.....	49
5.1.2	Full hierarchy.....	50
5.2	Language.....	59
5.3	History.....	62
6.0	Not valid terms.....	65
7.0	Appendix.....	66
7.1	Proportion of terms by level	66
7.2	Percentage of terms within levels 5 and 6.....	67
7.3	Non-preferred term rates.....	67

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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 Since then all updates including new terms, term record modifications and withdrawn terms have been released in batches – v6.4 is the latest batch of updates.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 systems¹.

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.

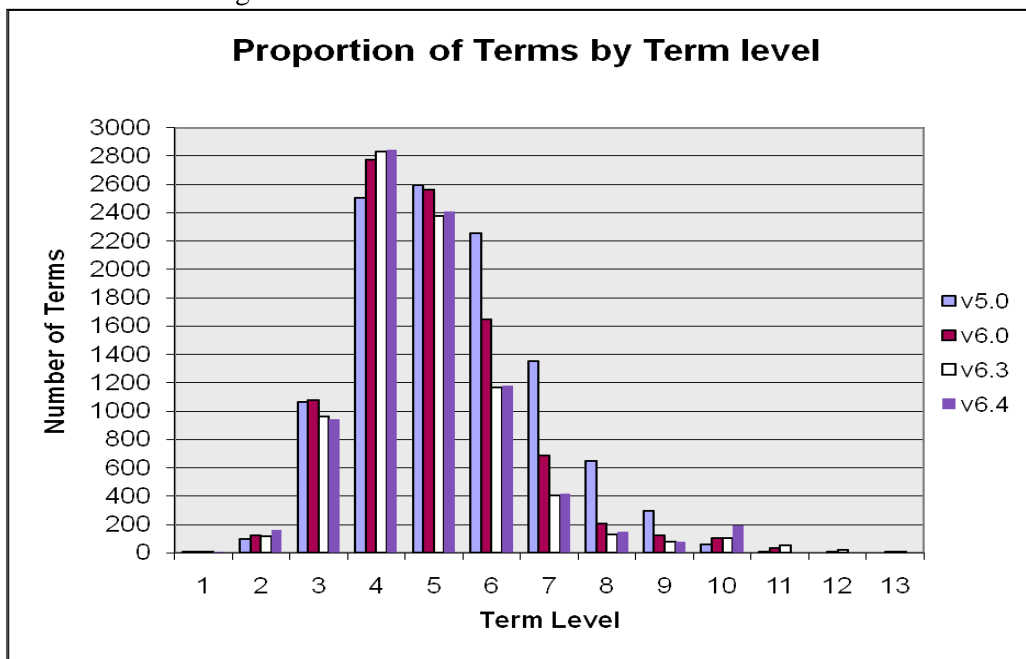


Figure 1 Proportion of terms by level

¹ 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 10th 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	
Total terms	10893	10580	8838	8838	8176	8276	8393
% in top 5 levels	57.56%	59.61%	67.10%	74.06%	76.88%	76.12%	75.93%
% in top 6 levels	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