



嘉迪教育
Cadence Education
ENGLISH • MATHEMATICS
PERFORMING ARTS

數學課程大綱

Mathematics Curriculum

Level 1

Numbers to 100 100以內的數

basic addition and subtraction 基本加減法

simple word problems 簡單文字題

2D and 3D shapes 平面及立體圖形

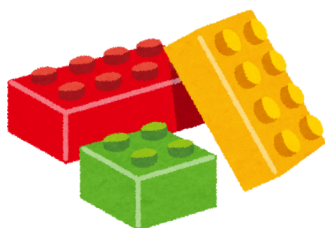
comparing length, weight and capacity 比較長度、重量及容量

time 時間

money 金錢

position and direction 位置與方向

patterns 規律





數學課程大綱

Mathematics Curriculum

Level 2

Numbers to 200 200以內的數
place value 位值

addition and subtraction within 100 100以內加減法

introduction to multiplication and division 乘法及除法初步

length measurement 長度量度

time and money 時間與金錢

basic angles 基本角

quadrilaterals 四邊形

pictograms and simple bar charts 象形圖及簡單棒形圖





數學課程大綱

Mathematics Curriculum

Level 3



4-digit and 5-digit numbers 四位數及五位數

multi-digit addition and subtraction 多位數加減法

multiplication tables 乘數表

basic division 基本除法

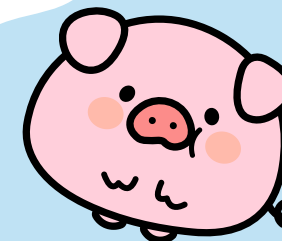
simple fractions 簡單分數

measurement of length, weight and capacity 長度、重量及容量量度

elapsed time 經過時間

money word problems 金錢文字題

bar charts 棒形圖





數學課程大綱

Mathematics Curriculum

Level 4

5-digit and 6-digit numbers 五位數及六位數

estimation 估算

multi-digit multiplication and division 多位數乘除法

mixed operations 四則混合運算

fractions 分數

unit conversion 單位換算

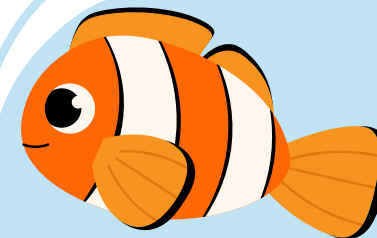
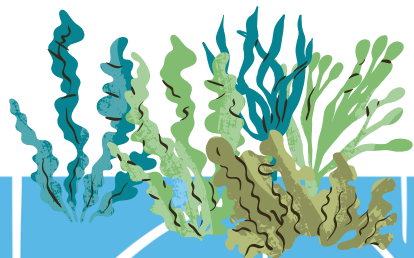
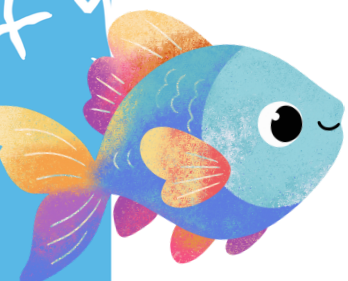
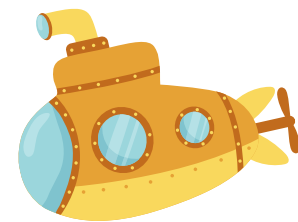
24-hour time 24小時制

triangles and quadrilaterals 三角形及四邊形

symmetry 對稱

map reading 地圖閱讀

multi-step word problems 多步文字題





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數學課程大綱

Mathematics Curriculum

Levels

Factors and multiples 因數與倍數

prime and composite numbers 質數與合成數

common multiples and common factors 公倍數與公因數

fraction comparison and simplification 分數比較及約分

decimals 小數

mixed operations 四則混合運算

perimeter 周界

area of rectangles, triangles and parallelograms

長方形、三角形及平行四邊形面積

bar charts and line graphs 棒形圖及折線圖





數學課程大綱

Mathematics Curriculum

Level 6

Fraction operations 分數四則運算

decimal operations 小數四則運算

conversion between fractions, decimals and percentages

分數、小數及百分數互化

simple algebraic expressions 簡單代數式

simple equations 簡易方程

area of triangles, parallelograms and trapeziums

三角形、平行四邊形及梯形面積

volume of cubes and cuboids 正方體及長方體體積

circles 圓形

angles 角

simple proportion 簡單比例





數學課程大綱

Mathematics Curriculum

Level 7

Mixed operations with fractions, decimals and percentages

分數、小數及百分數混合運算

percentage applications 百分數應用

ratio and rate 比與率

algebraic expressions 代數式

simple equations 簡易方程

area of composite figures 複合圖形面積

circumference and area of circles 圓周及圓面積

volume of prisms 柱體體積

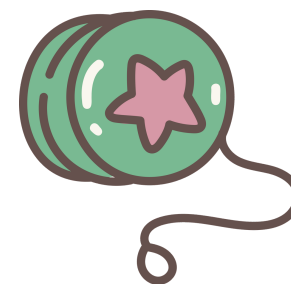
parallel-line angles 平行線角

transformations 圖形變換

mean, median and mode 平均數、中位數及眾數

pie charts 圓形圖

probability 概率





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Mathematics Curriculum

Level 8

Advanced percentage applications

高階百分數應用

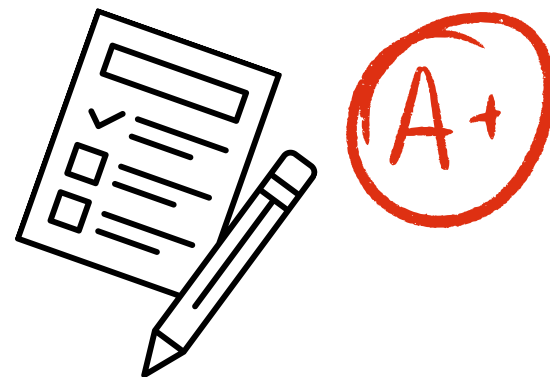
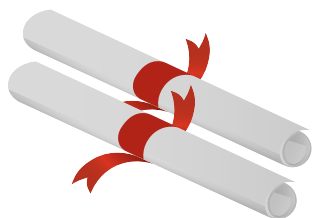
ratio and proportion 比與比例

speed, distance and time 速率、距離與時間

algebraic simplification and expansion

代數式化簡及展開

linear equations 一元一次方程



directed numbers 有向數

approximation 近似值

scientific notation

科學記數法

polygon angles 多邊形角

coordinates 坐標

histograms 直方圖

probability 概率



數學課程大綱

Mathematics Curriculum

Level 9

Directed number operations

有向數四則運算

index laws 指數律

standard form 標準形式

rounding and significant figures

四捨五入及有效數字

percentage applications 百分數應用

ratio and direct proportion 比及正比例

algebraic substitution, simplification, expansion and factorisation

代入、化簡、展開及因式分解

linear equations in one unknown

一元一次方程





數學課程大綱

Mathematics Curriculum

Level 10

Angles and lines 角與直線

parallel-line angle problems 平行線角度問題

triangles and polygons 三角形及多邊形

coordinate graphs 坐標圖

reflection, rotation and translation 反射、旋轉及平移

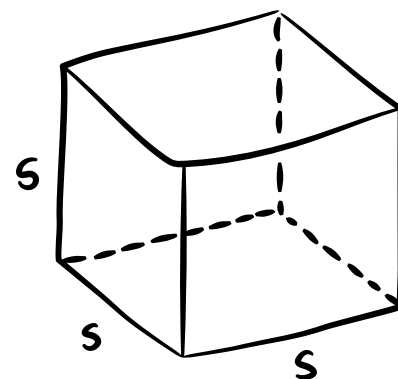
area of plane figures 平面圖形面積

volume of solids 立體體積

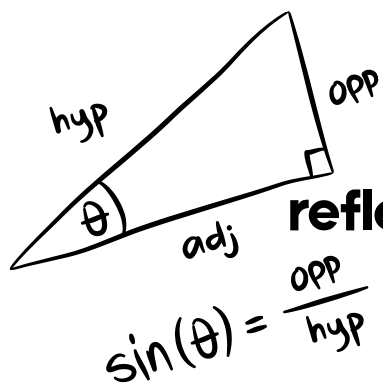
frequency tables and statistical charts 頻數表及統計圖表

mean, median and mode 平均數、中位數及眾數

simple probability 簡單概率



$$V = s^3$$



$$\sin(\theta) = \frac{\text{opp}}{\text{hyp}}$$

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$