

數學大典（幼兒篇）

Mathematics Dictionary (Early Childhood)

為何製作《數學大典》？

- 1.集課本、練習、課堂於一體，從最基礎開始、循序漸進地教授各數學課題
- 2.讓現在和將來的人可隨時、隨地、按個人需要和進度學習數學
- 3.減少對數學教師需求，釋放數學好的人才從事教數學以外行業，發揮所長，造福人群，加快人類發展
- 4.提升餘下的數學教師的素質

Why is the "Mathematics Dictionary" made?

- 1.Integrate textbooks, exercises, and classrooms into one, starting from the basics and teaching each math problem step by step
- 2.Let people now and in the future learn mathematics anytime, anywhere, according to personal needs and progress
- 3.Reduce the demand of mathematics teachers, release good mathematics talents to engage in professions other than teaching mathematics, give full play to their strengths, benefit the people, and accelerate human development
- 4.Improve the quality of remaining mathematics teachers

歡迎家長先按以下目錄培訓子女，如需要可向我們購所需課題。

每課(1 行為 1 課)HK\$18.8，請 email 到 drmathematician@gmail.com 申請想加入的課題及編號、語言及文字（目錄如下），付款後便可加入該課

Parents are welcome to train their children according to the following catalog, and if necessary, you can purchase the necessary topic(s) from us.

HK\$18.8 per topic. Email to drmathematician@gmail.com to apply for the topic, its number, and the language you want to join (Topics are shown below). You can join the lesson after payment

繁中+廣東語 / 繁中+普通話	English	簡中+普通話
基本技能 [0]	Basic skills [0]	基本技能 [0]
比較	Compare	比较
- 相同和不相同 [1.1]	- Same & different [1.1]	- 相同和不相同 [1.1]
- 一一對應 [1.2]	- One to one correspondence [1.2]	- 一一对应 [1.2]
- 比大小 [1.3]	- Big & small [1.3]	- 比大小 [1.3]
- 比高矮 [1.4]	- High & short [1.4]	- 比高矮 [1.4]
- 比長短 [1.5]	- Long & short [1.5]	- 比长短 [1.5]
- 上和下 [1.6]	- Up & down [1.6]	- 上和下 [1.6]
- 前和後 [1.7]	- Front & behind [1.7]	- 前和后 [1.7]
- 比多少 [1.8]	- More & less [1.8]	- 比多少 [1.8]
- 比厚薄(粗幼) [1.9]	- Thick & thin [1.9]	- 比厚薄(粗幼) [1.9]
- 比闊窄 [1.10]	- Wide & narrow [1.10]	- 比阔窄 [1.10]
- 遠和近 [1.11]	- Far & near [1.11]	- 远和近 [1.11]
- 直和曲 [1.12]	- Straight & curve [1.12]	- 直和曲 [1.12]
- 排列 [1.13]	- Order [1.13]	- 排列 [1.13]
- 最大和最小 [1.14]	- Biggest & smallest [1.14]	- 最大和最小 [1.14]
- 最高和最矮 [1.15]	- Highest & shortest [1.15]	- 最高和最矮 [1.15]
- 最長和最短 [1.16]	- Longest & shortest [1.16]	- 最长和最短 [1.16]
- 最厚和最薄 [1.17]	- Thickest & thinnest [1.17]	- 最厚和最薄 [1.17]
- 最闊和最窄 [1.18]	- Widest & narrowest [1.18]	- 最阔和最窄 [1.18]
- 最多和最少 [1.19]	- Most & least [1.19]	- 最多和最少 [1.19]
- 完整和不完整 [1.20]	- Complete & incomplete [1.20]	- 完整和不完整 [1.20]
- 一樣大 [1.21]	- Same size [1.21]	- 一样大 [1.21]
- 一樣多 [1.22]	- Same amount [1.22]	- 一样多 [1.22]
- 一樣長 [1.23]	- Same length [1.23]	- 一样长 [1.23]
- 比長度 [1.24]	- Compare lengths [1.24]	- 比长度 [1.24]
- 比高度 [1.25]	- Compare heights [1.25]	- 比高度 [1.25]
- 比闊度 [1.26]	- Compare widths [1.26]	- 比阔度 [1.26]
- 空和滿 [1.27]	- Empty and full [1.27]	- 空和满 [1.27]
- 上中下 [1.28]	- Up, middle, down [1.28]	- 上中下 [1.28]
- 前中後 [1.29]	- Front, middle, back [1.29]	- 前中后 [1.29]
- 比重量 [1.30]	- Compare weight [1.30]	- 比重量 [1.30]
- 比容量 [1.31]	- Compare capacity [1.31]	- 比容量 [1.31]
- 左和右 [1.32]	- Left & right [1.32]	- 左和右 [1.32]
- 內和外 [1.33]	- Inside & outside [1.33]	- 内和外 [1.33]
- 顏色 [1.34]	- Color [1.34]	- 颜色 [1.34]
- 關係配對 [1.35]	- Pairing [1.35]	- 关系配对 [1.35]

- 同類和不同類 [1.36]
- 分類 [1.37]
- 辨別異同 [1.38]
- 非負整數
- 認識 1 至 2 [2.1]
- 認識 3 至 5 [2.2]
- 數數: 1 至 5 [2.3]
- 分辨多少: 1 至 5 [2.4]
- 數的大小: 1 至 5 [2.5]
- 寫數: 1 至 5 [2.6]
- 順數和倒數: 1 至 5 [2.7]
- 認識 6 至 7 [2.8]
- 認識 8 至 9 [2.9]
- 認識 10 [2.10]
- 數數: 1 至 10 [2.11]
- 寫數: 6 至 10 [2.12]
- 數的多少(大小): 1 至 10 [2.13]
- 順數和倒數: 1 至 10 [2.14]
- 相鄰數: 1 至 10 [2.15]
- 認識 11 至 12 [2.16]
- 認識 13 至 14 [2.17]
- 認識 15 至 16 [2.18]
- 認識 17 至 18 [2.19]
- 認識 19 至 20 [2.20]
- 數數: 1 至 20 [2.21]
- 寫數: 11 至 20 [2.22]
- 順數和倒數: 1 至 20 [2.23]
- 數的多少(大小): 1 至 20 [2.24]
- 1 至 20 的前後數和之間數 [2.25]
- 單數(奇數)和雙數(偶數) [2.26]
- 次序(第幾) [2.27]
- 認識 21 至 30 [2.28]
- 認識 31 至 50 [2.29]
- 數數: 1 至 50 [2.30]
- 個位和十位 [2.31]
- 認識 51 至 100 [2.32]
- 數數: 1 至 100 [2.33]
- 認識 0 [2.34]

- Same type & different type [1.36]
- Classification [1.37]
- Identify the similarities and different type [1.38]
- Whole numbers
- Understanding 1-2 [2.1]
- Understanding 3-5 [2.2]
- Counting: 1-5 [2.3]
- More & less: 1-5 [2.4]
- Bigger & smaller: 1-5 [2.5]
- Write numbers: 1-5 [2.6]
- Counting on counting back: 1-5 [2.7]
- Understanding 6-7 [2.8]
- Understanding 8-9 [2.9]
- Understanding 10 [2.10]
- Counting: 1-10 [2.11]
- Write numbers: 6-10 [2.12]
- Comparing the values: 1-10 [2.13]
- Counting on & counting back: 1-10 [2.14]
- Adjacent numbers: 1-10 [2.15]
- Understanding 11-12 [2.16]
- Understanding 13-14 [2.17]
- Understanding 15-16 [2.18]
- Understanding 17-18 [2.19]
- Understanding 19-20 [2.20]
- Counting: 1-20 [2.21]
- Write numbers: 11-20 [2.22]
- Counting on & counting back: 1-20 [2.23]
- Comparing the values: 1-20 [2.24]
- The numbers before, after and between 1-20 [2.25]
- Odd numbers & even numbers [2.26]
- Ordinal numbers [2.27]
- Understanding 21-30 [2.28]
- Understanding 31-50 [2.29]
- Counting: 1-50 [2.30]
- Ones and tens [2.31]
- Understanding 51-100 [2.32]
- Counting: 1-100 [2.33]
- Understanding 0 [2.34]

- 同类和不同类 [1.36]
- 分类 [1.37]
- 辨别异同 [1.38]
- 非负整数
- 认识 1 至 2 [2.1]
- 认识 3 至 5 [2.2]
- 数数: 1 至 5 [2.3]
- 分辨多少: 1 至 5 [2.4]
- 数的大小: 1 至 5 [2.5]
- 写数: 1 至 5 [2.6]
- 顺数和倒数: 1 至 5 [2.7]
- 认识 6 至 7 [2.8]
- 认识 8 至 9 [2.9]
- 认识 10 [2.10]
- 数数: 1 至 10 [2.11]
- 写数: 6 至 10 [2.12]
- 数的多少(大小): 1 至 10 [2.13]
- 顺数和倒数: 1 至 10 [2.14]
- 相邻数: 1 至 10 [2.15]
- 认识 11 至 12 [2.16]
- 认识 13 至 14 [2.17]
- 认识 15 至 16 [2.18]
- 认识 17 至 18 [2.19]
- 认识 19 至 20 [2.20]
- 数数: 1 至 20 [2.21]
- 写数: 11 至 20 [2.22]
- 顺数和倒数: 1 至 20 [2.23]
- 数的多少(大小): 1 至 20 [2.24]
- 1 至 20 的前后数和之间数 [2.25]
- 单数(奇数)和双数(偶数) [2.26]
- 次序(第几) [2.27]
- 认识 21 至 30 [2.28]
- 认识 31 至 50 [2.29]
- 数数: 1 至 50 [2.30]
- 个位和十位 [2.31]
- 认识 51 至 100 [2.32]
- 数数: 1 至 100 [2.33]
- 认识 0 [2.34]

- 寫數: 0 至 100 [2.35]
- 順數和倒數: 0 至 100 [2.36]
- 數的多少(大小): 0 至 100 [2.37]
- 1 至 100 的前後數 [2.38]
- 中國數字 [2.39]
- 非負整數四則運算及整除性
- 非負整數加法
- 2 至 10 的組合
- 2 和 3 的組合 [3.1.1.1]
- 4 和 5 的組合 [3.1.1.2]
- 6 和 7 的組合 [3.1.1.3]
- 8 和 9 的組合 [3.1.1.4]
- 10 的組合 [3.1.1.5]
- 2 至 10 的組合總結 [3.1.1.6]
- 認識 "=" [3.1.2]
- 認識 "+" [3.1.3]
- 加法概念 [3.1.4]
- 10 以內的加法 [3.1.5]
- 11 至 18 的組合
- 11 和 12 的組合 [3.1.6.1]
- 13 和 14 的組合 [3.1.6.2]
- 15 至 18 的組合 [3.1.6.3]
- 11 至 18 的組合總結 [3.1.6.4]
- 一位數加法 [3.1.7]
- 加法交換性質 [3.1.8]
- 0 的加法 [3.1.9]
- 連加法 [3.1.14]
- 非負整數減法
- 2 至 10 的分解
- 5 以內的分解 [3.2.1.1]
- 6 至 8 的分解 [3.2.1.2]
- 9 和 10 的分解 [3.2.1.3]
- 2 至 10 的分解總結 [3.2.1.4]
- 認識 "-" [3.2.2]
- 減法概念 [3.2.3]
- 10 以內的減法 [3.2.4]
- 11 至 18 的分解
- 11 至 13 的分解 [3.2.5.1]

- Write numbers: 0-100 [2.35]
- Counting on & counting back: 0-100 [2.36]
- Comparing the values: 0-100 [2.37]
- The numbers before and after 1-100 [2.38]
- Read as [2.39]
- Operations & divisibility of whole numbers
- Addition of whole numbers
- Combination of 2-10
- Combination of 2 and 3 [3.1.1.1]
- Combination of 4 and 5 [3.1.1.2]
- Combination of 6 and 7 [3.1.1.3]
- Combination of 8 and 9 [3.1.1.4]
- Combination of 10 [3.1.1.5]
- Summary of combination of 2-10 [3.1.1.6]
- Understanding "=" [3.1.2]
- Understanding "+" [3.1.3]
- Concept of addition [3.1.4]
- Addition within 10 [3.1.5]
- Combination of 11-18
- Combination of 11 and 12 [3.1.6.1]
- Combination of 13 and 14 [3.1.6.2]
- Combination of 15-18 [3.1.6.3]
- Summary of combination of 11-18 [3.1.6.4]
- Addition of one-digit numbers [3.1.7]
- Commutative principle for addition [3.1.8]
- Addition of 0 [3.1.9]
- Addition of three or more whole numbers [3.1.14]
- Subtraction of whole numbers
- Decomposition of 2-10
- Decomposition within 5 [3.2.1.1]
- Decomposition of 6-8 [3.2.1.2]
- Decomposition of 9 and 10 [3.2.1.3]
- Summary of decomposition of 2-10 [3.2.1.4]
- Understanding "-" [3.2.2]
- Concept of subtraction [3.2.3]
- Subtraction up to 10 [3.2.4]
- Decomposition of 11-18
- Decomposition of 11-13 [3.2.5.1]

- 写数: 0 至 100 [2.35]
- 顺数和倒数: 0 至 100 [2.36]
- 数的多少(大小): 0 至 100 [2.37]
- 1 至 100 的前后数 [2.38]
- 中国数字 [2.39]
- 非负整数四则运算及整除性
- 非负整数加法
- 2 至 10 的组合
- 2 和 3 的组合 [3.1.1.1]
- 4 和 5 的组合 [3.1.1.2]
- 6 和 7 的组合 [3.1.1.3]
- 8 和 9 的组合 [3.1.1.4]
- 10 的组合 [3.1.1.5]
- 2 至 10 的组合总结 [3.1.1.6]
- 认识 "=" [3.1.2]
- 认识 "+" [3.1.3]
- 加法概念 [3.1.4]
- 10 以內的加法 [3.1.5]
- 11 至 18 的组合
- 11 和 12 的组合 [3.1.6.1]
- 13 和 14 的组合 [3.1.6.2]
- 15 至 18 的组合 [3.1.6.3]
- 11 至 18 的组合总结 [3.1.6.4]
- 一位数加法 [3.1.7]
- 加法交换性质 [3.1.8]
- 0 的加法 [3.1.9]
- 连加法 [3.1.14]
- 非负整数减法
- 2 至 10 的分解
- 5 以內的分解 [3.2.1.1]
- 6 至 8 的分解 [3.2.1.2]
- 9 和 10 的分解 [3.2.1.3]
- 2 至 10 的分解总结 [3.2.1.4]
- 认识 "-" [3.2.2]
- 减法概念 [3.2.3]
- 10 以內的减法 [3.2.4]
- 11 至 18 的分解
- 11 至 13 的分解 [3.2.5.1]

雙博士級首席高級講師及教授

A+ 級雙碩士

數學一 take 8 ☆滿分級

經驗註冊得獎教師及 高級珠奧冠軍教練 : Prof. Mathematician

- 14 至 18 的分解 [3.2.5.2]
- 11 至 18 的分解總結 [3.2.5.3]
- 18 以內的借位減法 [3.2.6]
- 0 的減法 [3.2.7]
- 連減法 [3.2.12]
- 非負整數乘法
- 2 個一數 [3.3.1]
- 5 個一數 [3.3.2]
- 10 個一數 [3.3.3]
- 非負整數除法
- 一和半 [3.4.1]
- 一打和半打 [3.4.2]

點、線、角、平面圖形、立體圖形

- 平面圖形基本認識
- 圓形 [10.1.1]
- 正方形、長方形 [10.1.2]
- 三角形、六邊形 [10.1.3]
- 總結 [10.1.4]
- 立體圖形基本認識
- 球體 [10.2.1]
- 柱體 [10.2.2]
- 錐體 [10.2.3]
- 正方體、長方體、三角柱體 [10.2.4]
- 球體、圓柱體、圓錐體 [10.2.5]
- 總結 [10.2.6]

- 線 (直線、曲線) [10.3]
- 立體圖形位置 [10.4]
- 對稱

- 認識對稱圖形 [10.10.1]
- 製作對稱圖形 [10.10.2]

度量

- 貨幣 [11.1]
- 溫度 [11.2]
- 時間
- 早、午、晚 [11.3.1]
- 前天、昨天、今天、明天、後天 [11.3.2]
- 四季: 春、夏、秋、冬 [11.3.3]
- 日期 (年、月、日、星期) [11.3.4]

- Decomposition of 14-18 [3.2.5.2]
- Decomposition of 11-18 [3.2.5.3]
- Subtraction up to 18 [3.2.6]
- Subtraction of 0 [3.2.7]
- Subtraction of three or more whole numbers [3.2.12]
- Multiplication of whole numbers
- Counting in groups of 2 [3.3.1]
- Counting in groups of 5 [3.3.2]
- Counting in groups of 10 [3.3.3]
- Division of whole numbers
- One (whole) and half [3.4.1]
- Dozen and half a dozen [3.4.2]

Points, lines, angles, 2D plane figures & 3D figures

- Introduction to 2D plane figures
- Circle [10.1.1]
- Square & rectangle [10.1.2]
- Triangle & Hexagon [10.1.3]
- Summary [10.1.4]
- Introduction to 3D shapes
- Sphere [10.2.1]
- Prism [10.2.2]
- Pyramid [10.2.3]
- Cube, cuboid, triangular prism [10.2.4]
- Sphere, cylinder, cone [10.2.5]
- Summary [10.2.6]

- Line (straight & curve) [10.3]
- Positions of 3D shapes [10.4]
- Symmetry

- Understanding symmetrical figures [10.10.1]
- Making symmetrical figures [10.10.2]

Mensuration

- Money [11.1]
- Temperature [11.2]
- Time
- Morning, noon, night [11.3.1]
- Yesterday, today, tomorrow [11.3.2]
- Four seasons: spring, summer, autumn, winter [11.3.3]
- Date (Year, month, day, week) [11.3.4]

- 14 至 18 的分解 [3.2.5.2]
- 11 至 18 的分解总结 [3.2.5.3]
- 18 以內的借位減法 [3.2.6]
- 0 的減法 [3.2.7]
- 連減法 [3.2.12]
- 非負整數乘法
- 2 個一數 [3.3.1]
- 5 個一數 [3.3.2]
- 10 個一數 [3.3.3]
- 非負整數除法
- 一和半 [3.4.1]
- 一打和半打 [3.4.2]

点、线、角、平面图形、立体图形

- 平面图形基本认识
- 圓形 [10.1.1]
- 正方形、長方形 [10.1.2]
- 三角形、六邊形 [10.1.3]
- 总结 [10.1.4]
- 立体图形基本认识
- 球体 [10.2.1]
- 柱体 [10.2.2]
- 锥体 [10.2.3]
- 正方体、長方体、三角柱体 [10.2.4]
- 球体、圓柱体、圓錐体 [10.2.5]
- 总结 [10.2.6]

- 线 (直线、曲线) [10.3]
- 立体图形位置 [10.4]
- 对称

- 认识对称图形 [10.10.1]
- 制作对称图形 [10.10.2]

度量

- 货币 [11.1]
- 温度 [11.2]
- 时间
- 早、午、晚 [11.3.1]
- 前天、昨天、今天、明天、后天 [11.3.2]
- 四季: 春、夏、秋、冬 [11.3.3]
- 日期 (年、月、日、星期) [11.3.4]

雙博士級首席高級講師及教授

A + 級雙碩士

數學一 take 8 ☆滿分級

經驗註冊得獎教師及高級珠奧冠軍教練 : Prof. Mathematician

-- 報時 (時、分、秒) [11.3.5]

- 長度 [11.4]

- 重量 [11.9]

- 容量 [11.7.21]

- 面積 [11.7.4]

應用題

- 加法概念 [14.1]

- 減法概念 [14.2]

- 四則運算應用題

-- 加減應用題 [14.5.1]

描述性統計

- 基本統計

-- 10 以內的統計 [49.1.1]

- 統計圖 [49.2]

-- Hour, minute, second [11.3.5]

- Length [11.4]

- Weight [11.9]

- Capacity [11.7.21]

- Area [11.7.4]

Application problems

- Concept of addition [14.1]

- Concept of subtraction [14.2]

- Application problems of four operations

-- Application problems of addition & subtraction [14.5.1]

Descriptive statistics

- Basic statistics

-- Statistics within 10 [49.1.1]

- Statistical graphs [49.2]

-- 报时 (时、分、秒) [11.3.5]

- 长度 [11.4]

- 重量 [11.9]

- 容量 [11.7.21]

- 面积 [11.7.4]

应用题

- 加法概念 [14.1]

- 減法概念 [14.2]

- 四則運算應用題

-- 加減應用題 [14.5.1]

描述性统计

- 基本统计

-- 10 以內的统计 [49.1.1]

- 统计图 [49.2]