HARROW INTERNATIONAL SCHOOL 哈罗国际学校 SHANGHAI 上海

LOWER SCHOOL • PROGRESSION FRAMEWORK

Mathematics 数学

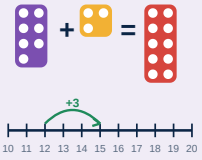
YEAR 1

By the end of Year 1, pupils will be able to...



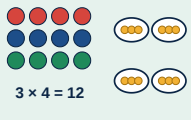
Number and Place Value 数字和位值

- Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
- Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
- Identify one more and one less than a given number
- Identify and represent numbers using objects and pictorial representations, including the number line, and use the language of: *equal to, more than, less than (fewer), most, least*
- Read and write numbers from 1 to 20 in numerals and words



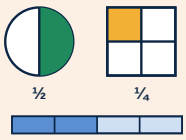
Addition and Subtraction 加法和减法

- Read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs
- Represent and use number bonds and related subtraction facts within 20
- Add and subtract one-digit and two-digit numbers to 20, including zero
- Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ☐ − 9



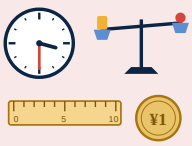
Multiplication and Division 乘法和除法

- Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher



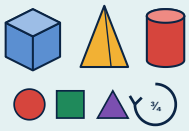
Fractions 分数

- Recognise, find and name a **half** as one of two equal parts of an object, shape or quantity
- Recognise, find and name a **quarter** as one of four equal parts of an object, shape or quantity



Measurement 度量

- Compare, describe and solve practical problems for: lengths and heights, mass/weight, capacity and volume, and time
- Measure and begin to record: lengths and heights, mass/weight, capacity and volume, and time (hours, minutes, seconds)
- Recognise and know the value of different denominations of coins and notes
- Sequence events in chronological order using language
- Recognise and use language relating to dates, including days of the week, weeks, months and years
- Tell the time to the hour and half past the hour, and draw the hands on a clock face to show these times



Geometry 几何

- Recognise and name common 2-D and 3-D shapes
- Describe position, direction and movement, including whole, half, quarter and three-quarter turns

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幼小部 · 学习进度表

数学 Mathematics

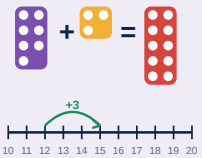
一年级

在一年级结束时，学生将能够……



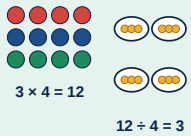
数字和位值 Number and Place Value

- 100 以内的数数（正序、倒序，以 0、1 或其他任意数字开始）
- 数、读、写到 100 的数字；以 2、5 和 10 的倍数计数
- 识别比给出的数字大 1 以及小 1 的数字
- 使用物体和图形（包括数轴）来识别和表示数字，并使用以下语言：等于、大于、小于（更少）、最多、最少
- 用数字和单词来读写 1 到 20 的数字



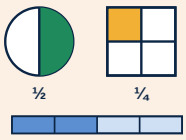
加法和减法 Addition and Subtraction

- 阅读、书写并理解包含加号（+）、减号（−）和等号（=）的数学算式
- 展示并使用 20 以内的数的组成及相关的减法
- 加减包括 0 在内的 20 以内的一位数和两位数
- 使用具体的物品和图像，解决包括加减法的一步问题，以及如 7 = ▢ − 9 的数学填空题



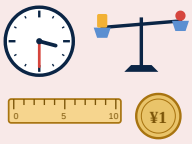
乘法和除法 Multiplication and Division

- 在老师的支持下，使用具体物品、图形表示和数组计算答案，解决涉及乘法和除法的一步问题



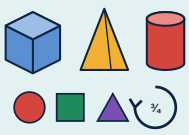
分数 Fractions

- 认识、找到并说出**二分之一**是物体、形状或数量的两个相等部分之一
- 认识、找到并说出**四分之一**是物体、形状或数量的四个相等部分之一



度量 Measurement

- 比较、描述并解决实际问题：长度和高度、质量/重量、容量和体积，以及时间
- 测量并开始记录：长度和高度、质量/重量、容量和体积，以及时间（时、分、秒）
- 认识并知道不同硬币和纸币的面值
- 使用语言按时间顺序排列事件
- 认识并使用与日期相关的语言，包括星期几、周、月和年
- 认读整点和半点的时间，并在钟面上画出指针表示这些时间



几何 Geometry

- 认识并能说出常见平面图形和立体图形的名称
- 描述位置、方向和运动，包括整圈、半圈、四分之一圈和四分之三圈的转动