



Cambridge IGCSE 0580

Mensuration Vocabulary

度量 (Mensuration) 词汇卡

Topic 5 | Core & Extended

FREE | Cambridge 0580 | Bilingual 双语

📘 Bilingual Vocabulary Cards 双语词汇卡

🎓 For Chinese-English Math Education

适用于中英双语数学教学

👉 Vocab Tables ✂️ Printable Flashcards 📖 Core & Extended

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How to Use This Resource / 使用说明 **What's inside / 内容概览**

- ▣ **Vocabulary Tables** (p. 3–5) — 36 bilingual terms with pinyin & definitions
- ☒ **Flashcards** (p. 6–11) — 3 sets of printable cards, print front/back pages back-to-back
- ➥ **Extended labels** — Look for *(Ext.)* to spot Extended-only content



Differentiation Tips / 分层教学建议

- ★ **Core students** — Focus on terms without the *(Ext.)* marker
- ➥ **Extended students** — Learn all terms including *(Ext.)* items
- 人群 **Bilingual learners** — Use the Chinese and Pinyin columns for support
- 🖨 **Printing tip** — Print flashcard pages double-sided for front/back cards

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Also available: Number, Algebra, Coordinate Geometry, Geometry, Trigonometry, Vectors & Statistics Vocabulary Cards

5.1–5.2 Units & Area / Perimeter

C5.1–C5.2/E5.1–E5.2 计量单位与面积/周长

Units of Measure | 计量单位

English 英文	Chinese 中文	Pinyin 拼音	Definition 定义
Metric unit	公制单位	gōng zhì dān wèi	A unit in the metric system, e.g. m, kg, L
Convert	换算	huàn suàn	To change a measurement from one unit to another
Length	长度	cháng dù	A measure of distance, e.g. mm, cm, m, km
Mass	质量	zhì liàng	A measure of how much matter, e.g. g, kg, t
Capacity	容量	róng liàng	The amount a container can hold, e.g. mL, L

Area & Perimeter | 面积与周长

English 英文	Chinese 中文	Pinyin 拼音	Definition 定义
Perimeter	周长	zhōu cháng	The total distance around the outside of a shape
Area	面积	miàn jī	The amount of space inside a 2D shape
Base	底	dǐ	The side used for calculating area, often the bottom
Height	高	gāo	Perpendicular distance from base to the top vertex
Parallelogram	平行四边形	píng xíng sì biān xíng	$\text{Area} = b \times h$; a quadrilateral with two pairs of parallel sides
Trapezium	梯形	tī xíng	$\text{Area} = \frac{1}{2}(a + b)h$; has one pair of parallel sides

5.3–5.4 Circles, Arcs, Surface Area & Volume

C5.3–C5.4/E5.3–E5.4 圆弧、扇形、表面积与体积

III Circles, Arcs & Sectors | 圆、弧与扇形

English 英文	Chinese 中文	Pinyin 拼音	Definition 定义
Circumference	周长 (圆)	zhōu cháng	The perimeter of a circle; $C = \pi d$ or $C = 2\pi r$
Pi (π)	圆周率	yuán zhōu lǜ	Ratio of circumference to diameter; ≈ 3.14159
Area of circle	圆的面积	yuán de miàn jī	$A = \pi r^2$; space enclosed by a circle
Arc	弧	hú	A part of the circumference of a circle
Arc length	弧长	hú cháng	$l = \frac{\theta}{360} \times 2\pi r$; length of an arc
Sector	扇形	shàn xíng	A region bounded by two radii and an arc
Sector area	扇形面积	shàn xíng miàn jī	$A = \frac{\theta}{360} \times \pi r^2$; area of a sector

IV Surface Area & Volume | 表面积与体积

English 英文	Chinese 中文	Pinyin 拼音	Definition 定义
Surface area	表面积	biǎo miàn jī	Total area of all faces of a 3D solid
Volume	体积	tǐ jī	The amount of 3D space a solid occupies
Cuboid	长方体	cháng fāng tǐ	$V = l \times w \times h$; a box-shaped solid
Prism	棱柱	léng zhù	$V = \text{cross-section area} \times \text{length}$
Cylinder	圆柱	yuán zhù	$V = \pi r^2 h$; a prism with circular cross-section
Cross-section	截面	jié miàn	The face revealed when a solid is sliced through

5.4–5.5 3D Solids & Compound Shapes

E5.4–E5.5 立体图形与组合图形

3D Solids (Extended) | 立体图形 (扩展)

English 英文	Chinese 中文	Pinyin 拼音	Definition 定义
Sphere	球体	qiú tǐ	$V = \frac{4}{3}\pi r^3$; a perfectly round solid (Ext.)
Pyramid	棱锥	léng zhuī	$V = \frac{1}{3} \times \text{base area} \times h$ (Ext.)
Cone	圆锥	yuán zhuī	$V = \frac{1}{3}\pi r^2 h$; a solid with circular base and apex (Ext.)
Hemisphere	半球	bàn qiú	Half of a sphere; $V = \frac{2}{3}\pi r^3$ (Ext.)
Net	展开图	zhǎn kāi tú	A flat pattern that folds into a 3D solid
Slant height	斜高	xié gāo	The distance along the sloping side of a cone or pyramid (Ext.)

Compound Shapes | 组合图形

English 英文	Chinese 中文	Pinyin 拼音	Definition 定义
Compound shape	组合图形	zǔ hé tú xíng	A shape made by joining two or more simple shapes
Compound solid	组合体	zǔ hé tǐ	A 3D solid formed by combining simpler solids (Ext.)
Frustum	棱台	léng tái	A solid formed by cutting the top off a cone or pyramid (Ext.)
Semicircle	半圆	bàn yuán	Half of a circle; area = $\frac{1}{2}\pi r^2$
Curved surface area	曲面面积	qū miàn miàn jī	The area of the curved part, excluding flat ends (Ext.)
Dimension	维度	wéi dù	A measurable extent: length, width, or height

Flashcards — Front (Terms)

闪 卡 正 面 — 术 语

Perimeter

周 长

Area

面 积

Circumference

周 长 (圆)

Volume

体 积

Surface Area

表 面 积

Pi (π)

圆 周 率

Cut along dashed lines. Print this and next back-to-back. 沿虚线剪开。本页与下一页双面打印。

Flashcards — Back (Definitions)

闪卡背面—定义

Area

面积

Space inside a 2D shape
二维图形内部的空间

Perimeter

周长

Total distance around a shape
图形外围的总长度

Volume

体积

3D space a solid occupies
立体图形占据的三维空间

Circumference

周长 (圆)

Perimeter of a circle; $C = \pi d$
圆的周长; $C = \pi d$

Pi (π)

圆周率

$\text{Circumference} \div \text{diameter} \approx 3.14159$
周长 \div 直径 ≈ 3.14159

Surface Area

表面积

Total area of all faces of a solid
立体图形所有面的总面积

🖨️ Print pages 6–7 back-to-back, then cut along dashed lines. 第6–7页双面打印，沿虚线剪裁。

Flashcards — Front (More Terms)

闪卡正面 — 更多术语

Arc Length

弧长

Sector Area

扇形面积

Prism

棱柱

Cylinder

圆柱

Trapezium

梯形

Cross-section

截面

Cut along dashed lines. Print this and next back-to-back. 沿虚线剪开。本页与下一页双面打印。

Flashcards — Back (Definitions)

闪卡背面—定义

Sector Area

扇形面积

$$A = \frac{\theta}{360} \times \pi r^2$$

扇形面积公式

Arc Length

弧长

$$l = \frac{\theta}{360} \times 2\pi r$$

弧长公式

Cylinder

圆柱

$$V = \pi r^2 h; \text{ circular cross-section}$$

$V = \pi r^2 h$; 横截面为圆

Prism

棱柱

$$V = \text{cross-section} \times \text{length}$$

$V = \text{截面面积} \times \text{长}$

Cross-section

截面

The face when a solid is sliced through

沿某方向切开立体图形露出的面

Trapezium

梯形

$$A = \frac{1}{2}(a + b)h; \text{ one pair of parallel sides}$$

$A = \frac{1}{2}(a + b)h$; 一对平行边

🖨️ Print pages 8–9 back-to-back, then cut along dashed lines. 第8–9页双面打印，沿虚线剪裁。

Flashcards — Front (Even More Terms)

闪卡正面 — 更多术语

Sphere

球体

Cone

圆锥

Pyramid

棱锥

Frustum

棱台

Compound Shape

组合图形

Net

展开图

Cut along dashed lines. Print this and next back-to-back. 沿虚线剪开。本页与下一页双面打印。

Flashcards — Back (Definitions)

闪卡背面—定义

Cone

圆锥

$$V = \frac{1}{3}\pi r^2 h; \text{ circular base + apex}$$

$$V = \frac{1}{3}\pi r^2 h; \text{ 圆底 + 顶点}$$

Sphere

球体

$$V = \frac{4}{3}\pi r^3; \text{ perfectly round solid}$$

$$V = \frac{4}{3}\pi r^3; \text{ 完美的圆球}$$

Frustum

棱台

Top cut off a cone or pyramid

圆锥或棱锥截去顶部后的立体

Pyramid

棱锥

$$V = \frac{1}{3} \times \text{base} \times h$$

$$V = \frac{1}{3} \times \text{底面积} \times h$$

Net

展开图

A flat pattern that folds into a 3D solid

可折叠成立体图形的平面图案

Compound Shape

组合图形

A shape made from simpler shapes

由简单图形组合而成的图形

🖨️ Print pages 10–11 back-to-back, then cut along dashed lines. 第 10–11 页双面打印, 沿虚线剪裁。