## Pearson Edexcel GCSE (9-1) Mathematics

**May-June 2023 Assessment Window** 

**Syllabus** reference

**1MA1** 

По

# **Mathematics Foundation tier Exam Aid**

You are not permitted to take this notice into the examination. A version of this equation list will be included with the May-June 2023 question papers. This document is valid if downloaded from the **Pearson** Qualifications website.

#### Instructions

Please ensure that you have read this aid before the examination.

#### Information

- A formula sheet will be provided for foundation tier and for higher tier students.
- The format/structure of the assessments remains unchanged.
- This exam aid provides students with additional exam formulae which they may refer to in their examinations.
- Please note, a copy of this exam aid will be made available to all students on the day of the examination as an insert in the question paper.
- There are no restrictions on who can use this aid.
- Students and teachers can discuss this exam aid.
- This document has 2 pages.

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#### **Foundation Tier Formulae Sheet**

#### Perimeter, area and volume

Where a and b are the lengths of the parallel sides and h is their perpendicular separation:

Area of a trapezium = 
$$\frac{1}{2} (a + b) h$$

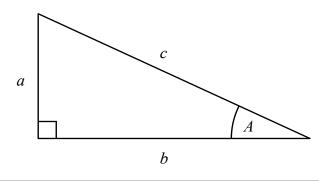
Volume of a prism = area of cross section  $\times$  length

Where r is the radius and d is the diameter:

Circumference of a circle = 
$$2\pi r = \pi d$$

Area of a circle = 
$$\pi r^2$$

#### Pythagoras' Theorem and Trigonometry



In any right-angled triangle where a, b and c are the length of the sides and c is the hypotenuse:

$$a^2 + b^2 = c^2$$

In any right-angled triangle ABC where a, b and c are the length of the sides and c is the hypotenuse:

$$\sin A = \frac{a}{c} \quad \cos A = \frac{b}{c} \quad \tan A = \frac{a}{b}$$

### **Compound Interest**

Where P is the principal amount, r is the interest rate over a given period and n is number of times that the interest is compounded:

Total accrued = 
$$P\left(1 + \frac{r}{100}\right)^n$$

#### **Probability**

Where P(A) is the probability of outcome A and P(B) is the probability of outcome B:

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

#### **END OF EXAM AID**