# Geometry and trigonometry

Pearson Edexcel · International GCSE · Mathematics A · Vocabulary in context

| Word | Example |
|---|---|
| **corresponding angles** /ˌkɒrɪˈspɒndɪŋ ˈæŋglz/ | **Corresponding angles** on parallel lines are equal. |
| **alternate angles** /ɔːlˈtɜːnət ˈæŋglz/ | **Alternate angles** on parallel lines are equal. |
| **quadrilateral** /ˌkwɒdrɪˈlætərəl/ | A **quadrilateral** has four sides. |
| **regular polygon** /ˈregjʊlə ˈpɒlɪgən/ | A **regular polygon** has equal sides and equal angles. |
| **congruent** /ˈkɒŋgruːənt/ | **Congruent** shapes are exactly the same size and shape. |
| **similar** /ˈsɪmɪlə/ | **Similar** shapes have the same shape but different sizes. |
| **line of symmetry** /laɪn ɒv ˈsɪmətri/ | Fold the shape along its **line of symmetry**. |
| **rotational symmetry** /rəʊˈteɪʃənl ˈsɪmətri/ | A square has **rotational symmetry** of order 4. 4 |
| **bearing** /ˈbeərɪŋ/ | The ship sails on a **bearing** of 090°, due east. 090° |
| **compound measures** /ˈkɒmpaʊnd ˈmeʒəz/ | **Compound measures** combine quantities, as speed combines distance and time. |
| **speed** /spiːd/ | **Speed** is distance divided by time. |
| **density** /ˈdensɪti/ | Iron has a higher **density** than wood, so it sinks in water. |



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| **pressure** /ˈpreʃə/ | A sharp knife puts a large **pressure** on the bread. |
| **locus** /ˈləʊkəs/ | The **locus** $\lvert z - 2\rvert = 3$ is a circle. $\lvert z - 2\rvert = 3$ |
| **chord** /kɔːd/ | A **chord** is a straight line joining two points on a circle. |
| **tangent** /ˈtændʒənt/ | Draw a **tangent** to the curve to find the gradient at one point. |
| **cyclic quadrilateral** /ˈsaɪklɪk ˌkwɒdrɪˈlætərəl/ | The corners of a **cyclic quadrilateral** all lie on a circle. |
| **Pythagoras' theorem** /paɪˈθægərəs ˈθɪərəm/ | **Pythagoras' theorem** says $a^2 + b^2 = c^2$. $a^2 + b^2 = c^2$ |
| **angle of elevation** /ˈæŋgl ɒv ˌelɪˈveɪʃn/ | The **angle of elevation** is measured up from the horizontal. |
| **angle of depression** /ˈæŋgl ɒv dɪˈpreʃn/ | The **angle of depression** is measured down from the horizontal. |
| **sine rule** /saɪn ruːl/ | Use the **sine rule** to find the missing side. |
| **cosine rule** /ˈkəʊsaɪn ruːl/ | Use the **cosine rule** when you know two sides and the angle between them. |
| **space diagonal** /speɪs daɪˈægənl/ | A cuboid's **space diagonal** joins opposite corners through its interior. |
| **sector** /ˈsektə/ | A **sector** is a slice of a circle, like a piece of pizza. |
| **volume** /ˈvɒljuːm/ | The **volume** of the box is $2\text{ m} \times 1\text{ m} \times 1\text{ m} = 2\text{ m}^3$. $2\text{ m} \times 1\text{ m} \times 1\text{ m} = 2\text{ m}^3$ |



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| Word | Example |
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| **cone** /kəʊn/ | An ice cream cone is a **cone**. |
| **sphere** /sfɪə/ | A ball is a **sphere**. |
| **scale factor** /skeɪl ˈfæktə/ | A **scale factor** of three triples each length. three |



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