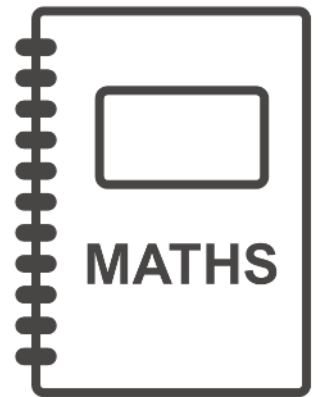
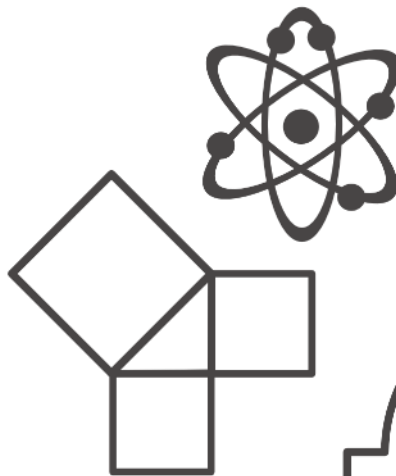
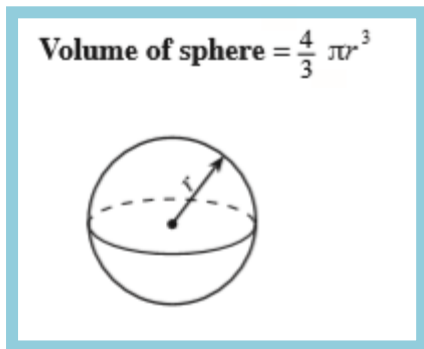
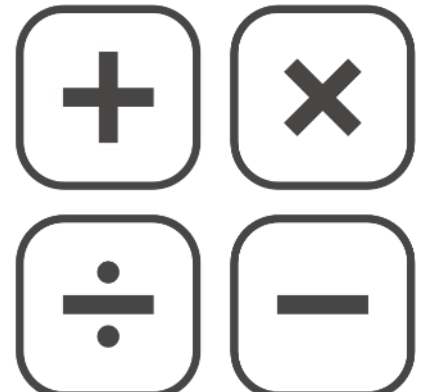
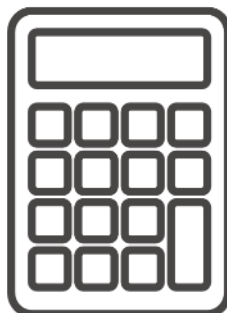
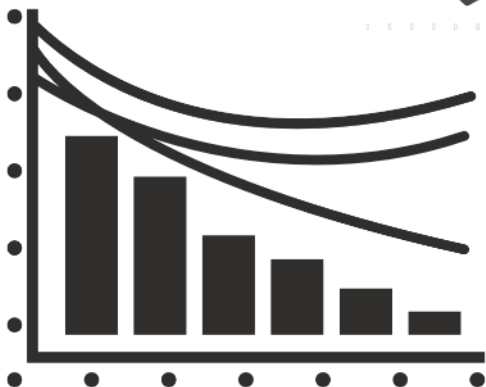
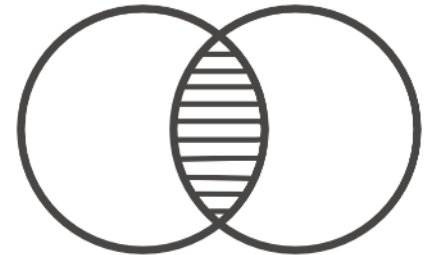
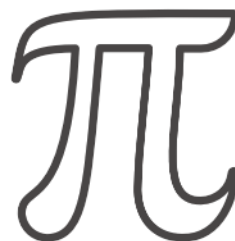
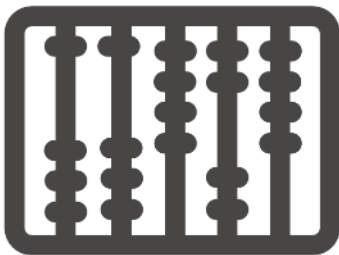
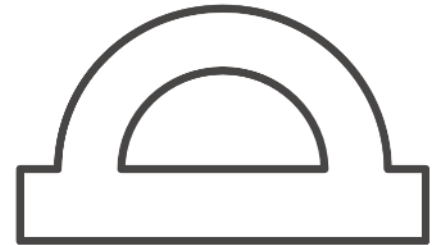


## GCSE TOPIC BOOKLET VOLUME OF A SPHERE & HEMISPHERE



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



1. Find the volume of a sphere with a radius 6.4 cm.

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[2]

2. Calculate the volume of a sphere with radius 2.8 cm.

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[2]

3. The volume of a sphere is 45.9 litres. Calculate the radius of the sphere stating the units of your answer.

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[5]

4. The volume of a **hemisphere** is  $34.2 \text{ cm}^3$ . Calculate the radius of the **hemisphere**.

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[3]

5. The volume of a **hemisphere** is  $41 \text{ cm}^3$ . Calculate the radius of the **hemisphere**.

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[4]

6. The volume of a **hemisphere** is  $48.5 \text{ cm}^3$ . Calculate the radius of the **hemisphere**.

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[4]

7. The volume of a **hemisphere** is  $34 \text{ cm}^3$ . Find the volume of a **sphere** with a radius of twice that of the hemisphere.

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[4]