Numbers & Thinking - Proficient 2 - Unit 6
Surface Area of Solids

The Home EducAid Centre

Sessions: 6 sessions   **Subject:** Numbers & Thinking

TOPICS

- Prisms and cylinders
- Net method

KNOWLEDGE

- Surface area sum of all face areas.
- Drawing net helps organise faces.
- Cylinder area uses circumference times height.

SKILLS

- Find surface of cuboid 4x3x2.
- Draw net of triangular prism and calculate.
- Calculate cylinder area with pi.

👥 INCLUSION (DIFFERENTIATION)

• Stretch: composite solid separate parts.
• Support: build net from card first.

🔖 KEYWORDS

surface area, net, cylinder

💡 TEACHING IDEAS

Cut out net from paper fold into box.
Label each face area and add.
Wrap string round can to measure circumference.
Make two card strips with a split pin to form an angle; measure with a protractor..
Draw shapes on squared paper and work out perimeter and area..

📖 BOOK RESOURCES

CGP GCSE Maths Higher - Section 5: Geometry and Measures - 3D Shapes and Surface Area (Page 42)