ONE PAGE SUMMARY

Kids Learning › Geometry for Kids › 3D Shapes

# What is 3D Shapes

Discover the exciting world of 3D shapes!

## DEFINITION

> 3D shapes are solid figures that have depth, width, and height. Unlike 2D shapes, they occupy space and can be seen from different angles.

## KEY CONCEPTS

### Vertices

Vertices are the points where the edges of a 3D shape meet.

### Edges

Edges are the lines where two faces of a 3D shape connect.

### Faces

Faces are the flat surfaces that make up the outer part of a 3D shape.

### Types of 3D Shapes

Common types include cubes, spheres, cylinders, and pyramids, each with unique properties.

### Volume

Volume measures how much space a 3D shape occupies, often calculated in cubic units.

## EXAMPLES

→ A cube is like a dice with 6 square faces.

→ A sphere is like a basketball, perfectly round.

→ A cylinder is like a can of soda, with circular ends.

## MEMORY TIPS

★ Remember 'V' for Vertices, 'E' for Edges, and 'F' for Faces.

★ Think of a cube as a box: it has corners, sides, and a solid shape.

★ Visualize everyday objects to connect 3D shapes with real life.

## COMMON MISTAKES

✗ Confusing 2D shapes with 3D shapes, like thinking a square is the same as a cube.

✗ Miscounting the number of edges or vertices on a shape.

✗ Forgetting that 3D shapes have volume, not just area.

## QUICK RECAP

3D shapes are solid figures with depth, width, and height. Key concepts include vertices, edges, and faces. Remember to visualize shapes in real life to strengthen your understanding.