

Castlefield School- Maths

acute angle

anti-clockwise

same size sides and

to move a shape

between 180° and 360°

Topic: Angles, lines and shapes

Year: Five

Theme: Geometry

obtuse angle

parallel

vertices

coordinates

irregular shape

interior angle

reflection

degrees

turn

plot.

angles

perpendicular

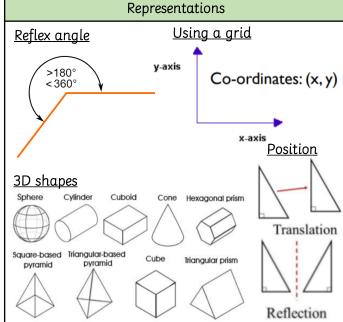
different sides and

angles within in a shape

to reflect a shape on a

line of symmetry

Key Vocabulary



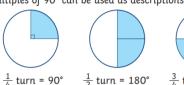
	right angle
s: (x, y)	clockwise
	2D
<u>ion</u>	x-axis
-	regular shape
nslation	reflex angle
1	translation
ection	

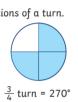
Making connections

The 9 times table will help identify quarter, half, three guarter and whole turns. These increase by 90° each time. The 90 times table is ten times bigger than the 9 times table.

9	18	27	36
90	180	270	360

Multiples of 90° can be used as descriptions of a turn.







Is this shape regular or irregular?

3D

y-axis

angles

Regular shapes have sides that are all the same length (equilateral) and angles which are all the same size (equiangular)

Regular Irregular	()	equialigatar).				
		Regular	Irregular			
			↑ √			

What is the missing angle?

Angles around a point add up to 360° whilst angles on a straight line equal 180°.



205°+65°+30°= 300° 180°-117°=63°

360°-300°=60°

Key concepts and questions Do these lines make a right angle?

> Yes, they do. It doesn't matter which way up the L shape is, if the lines meets at 90 degrees then it is a right angle.

What is the missing length?

Regular shapes have equal sides. If you know the length of one side, you know the length of all the sides.

Opposite sides of rectangles are equal. You can use algebra to help find the missing length.

For example, the perimeter of this shape is 36cm.



4cm

36cm = 4cm + 4cm + a + aSo. $36cm-4cm-4cm = 28cm = 2 \times a$

 $A = 28 \div 2 = 14cm$