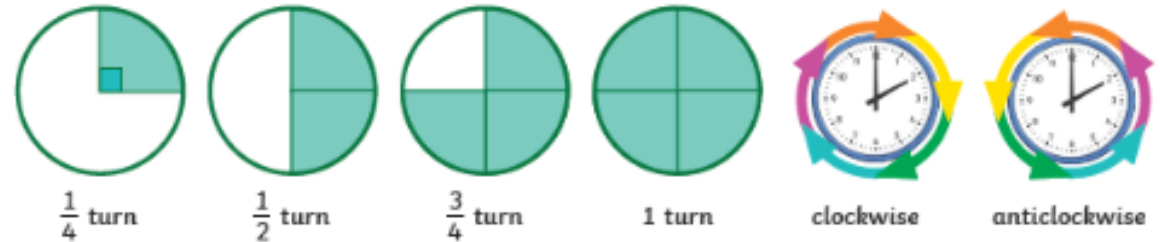


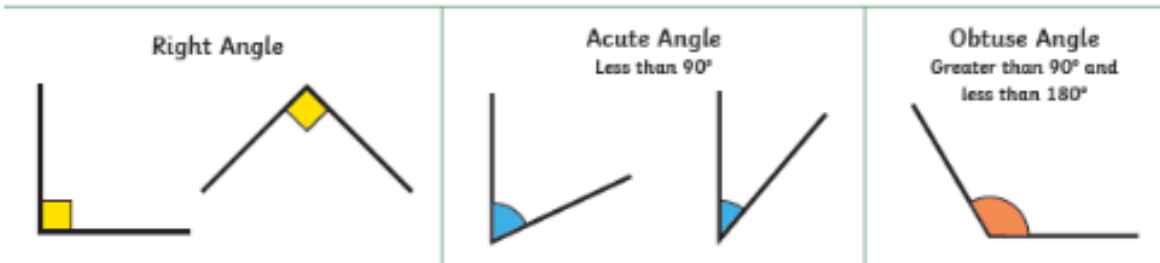
Key Vocabulary	Definition
If you see * next to a word, it means there is a diagram to explain it	
quarter turn *	A turn of 90°
half turn *	A turn of 180° - or 2 90° turns
three quarter turn *	A turn of 270° - or 3 90° turns
one turn *	A turn of 360° - or 4 90° turns
angle	The number of degrees rotated around a point
right angle *	An angle which measures 90 degrees
horizontal *	Describes a line parallel to the earth's surface
vertical *	A line which is at right angles to a horizontal line
parallel *	Lines which are always an equal distance apart
perpendicular *	A line at right angles to another line
polygon	A two-dimensional shape having three or more straight sides
two-dimensional (2d)	Having two dimensions of length and width (cannot be picked up)
three-dimensional (3d)	Having three dimensions of length, width and height (can be picked up)
flat face *	A flat surface of a three-dimensional (3d) object
curved surface	A curved surface of a three-dimensional (3d) object
edge *	Where two faces of a three-dimensional object meet.
vertex / vertices *	The point at which two or more arms of an angle meet or the adjacent sides of a polygon meet
apex	the highest point, the point at the top of a shape

Turns and Angles

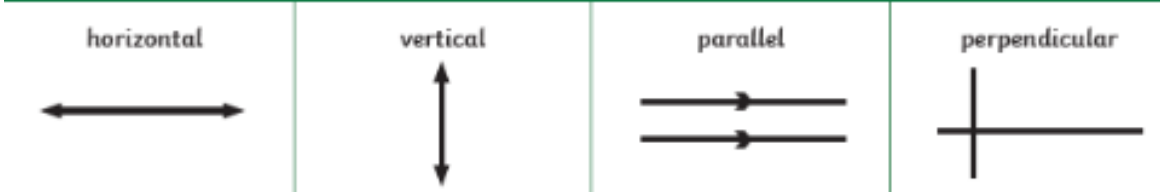
Angles can be used as a description of a turn.



An angle is created when two straight lines meet at a point or intersect.



Type of Lines



Recognise and Describe 2D Shapes	Recognise and Describe 3D Shapes

Real Life

- **Building.** Making sure shelves / doors are at right angles.
- **Sports players.** Knowing what angle to kick / hit a ball at to pass / score.
- **Turning boats / planes** - When boats and planes turn, they need to set the number of degrees they want to turn
- **What else can you think of?**

Zooming out...

- **Ancient Egyptians.** In 1500BC in Egypt, measurements were taken of the Sun's shadow against graduations marked on stone tables (a sun dial)
- 'Geometry' comes from the Greek word *geometria*, meaning 'earth measurement'
- **Ancient Egyptians** are thought to be the first group to begin studying geometry. We can see evidence of this type of thinking with their design and construction of the Great Pyramids

Prior Knowledge

Recognise and Describe 2D Shapes	
	side corner or vertex
Recognise and Describe 3D Shapes	
	face edge vertices