## Before you start．．．

－What do pupils know about angles？
－What language do pupils use when describing turns？
－How confident are pupils at describing angles in shapes？
－How confident are pupils at describing angles as a turn？
－What shapes and their respective properties are pupils confident with？


## Angles in two ways

Angles can be thought about in two different ways．Angles can be thought of as objects like the corner of a book or a vertex of a triangle．A measure of how pointy something is． Angles can also be thought of as a measure of turn where
of its meaning．


An acute angle is less than a right angle


A right angle is equal to $90^{\circ}$


An obtuse angle is greater than a right angle and less than two right angles


## Identifying parallel and perpendicular lines

L6 Use a right－angle checker to identify perpendicular lines L7 Draw perpendicular lines
L8 Identify and explain parallel lines
Pupils are introduced to different line orientations and the vocabulary used to describe them．They identify perpendicular and parallel lines as line segments and within shapes．Using their knowledge of right angles，pupils then draw horizontal and vertical lines perpendicular or parallel to each other．
？What are typical examples of line segments which are parallel，perpendicular，horizontal and vertical？Unusual examples？Non－examples？

Lessons 5， 9 and 15 are consolidation lessons but you may wish to consolidate at different points in the unit．

## Perspective on angles provides an interesting perspective on measuring angles and provides some activities to challenge pupils．

Which of these are a line of symmetry？


## Reasoning about symmetry

L14 Identify and describe lines of symmetry in 2－D shapes
Pupils investigate lines of symmetry，spending time exploring these in 2－D shapes．
？How would you explain if something is symmetrical？What examples could you draw upon and how will you make the connections？
？How would you describe and clarify what a line of symmetry is？ What language would you use？

