

Angles smaller and bigger than a right angle

WHAT THIS LESSON TEACHES

A right angle matches the square corner of a page or book. We sort angles as smaller than a right angle, exactly a right angle, or bigger than a right angle.

- The corner where two walls meet in the workshop.
- The sharp point on a wooden wedge for building.
- A pair of pliers opened wide while fixing a frame.

MODEL THIS ON THE BOARD

TESTING AN ANGLE WITH YOUR PAPER RIGHT-ANGLE TESTER

- 1 Draw the angle formed by two pieces of wood.
- 2 Place the square corner of your tester exactly on the angle point.
- 3 Check if the tester fits inside the angle, matches it, or sits outside it.

DISCUSSION STARTER

REFLECT How do you decide if an angle is smaller or bigger than a right angle?

ANSWER KEY

Scaffold: visual check on the page

Q1: yes

Q2: yes

Q3: bigger

a) Never — A bigger angle opens wider so the tester sits inside it instead.

b) Always — By definition a right angle is the same size as the square corner.

c) Sometimes — Some wedges are sharp enough to be smaller while others may not be.

d) Always — These are the only three possibilities when comparing to a right angle.

EXTENSION SHEET · STRETCH ANSWERS

Investigation: Right-angle detective — open-ended; scan pupils' working for valid solution paths rather than a single answer.