

Lesson 2

Lesson 3 WALT: Compare and measure angles.

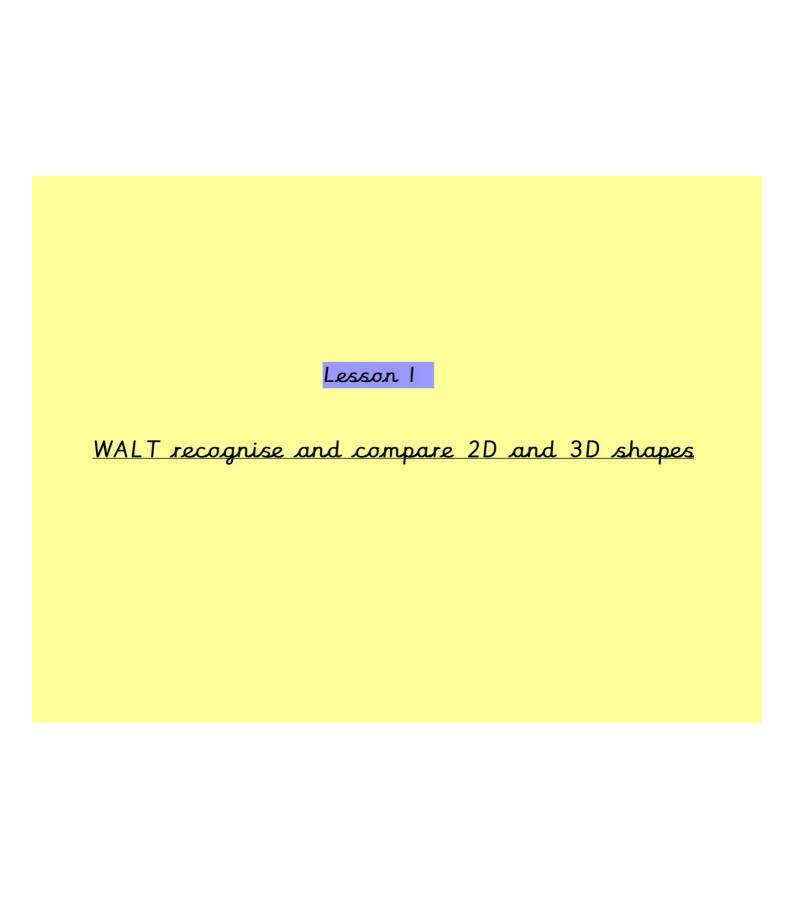


Lesson 4 WALT measure and draw angles.



WEEK 1 - MATHS





What is the difference between 2D and 3D shapes?

Vocabulary

2D 3D Shapes orientation property

2D shapes have sides and corners, and are completely flat.

e.g. circles, triangles, squares etc

3D shapes have three dimensions length, width and depth.

e.g. cubes, pyramids and spheres.

What other 2D and 3D shapes can you name?

WALT recognise and compare 2D and 3D shapes Which of these shapes are triangles? why? Triangles Non-triangles b b

WALT recognise and compare 2D and 3D shapes
When we are comparing shapes we need to use
specific vocabulary.

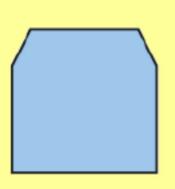
Sort the key vocabulary you would use for 2D and 3D shapes or both:

2D 3D

Both

edges vertices faces Sides vertex

Different ways of counting the sides of 2D shapes:



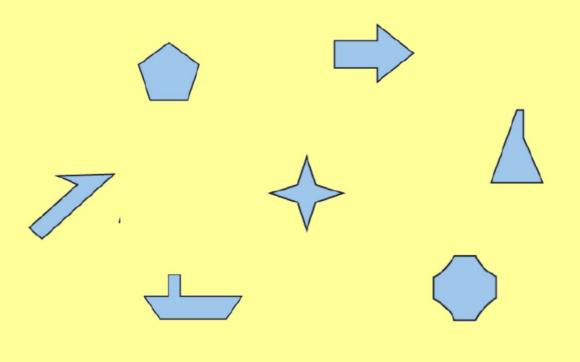
- Running your finger along each side as you count.
- Marking the sides on the shape as you count.

Make sure you accurately count the sides of the shapes and are only counting the sides one time.



WALT recognise and compare 2D and 3D shapes

Count the sides of these shapes with your partner:



WALT recognise and compare 2D and 3D shapes				
Label this shape:	Faces Edges			
	Vertices			

What are the properties of this shape?





Faces:

Edges:

Verticies:

Faces: A face is a flat or curved surface on a 3D shape.

Edges: An edge is where two faces meet.

Verticies: A vertex is a corner where edhes meet.

You are going to be given 2D and 3D shapes.

You need to write down all the properties of the shape.

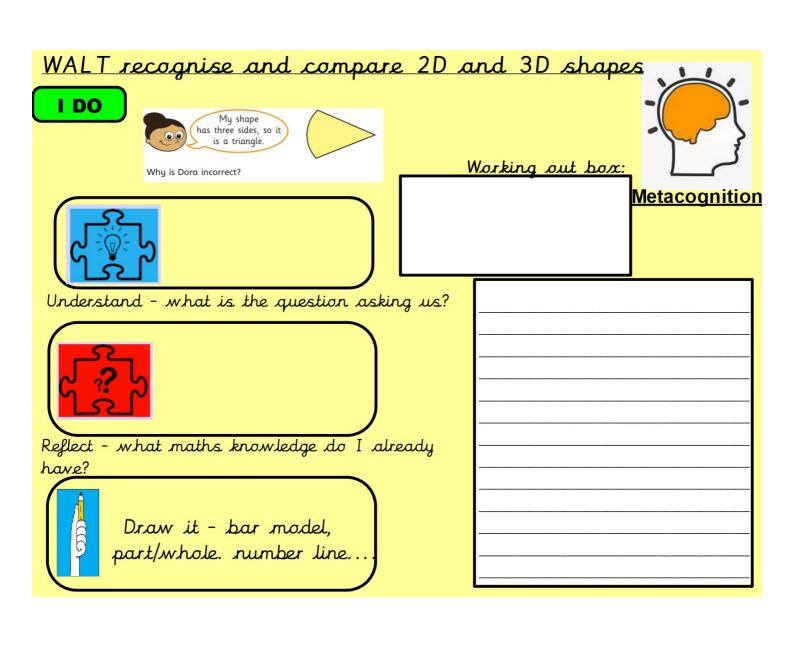
Key words to use:

3D Side

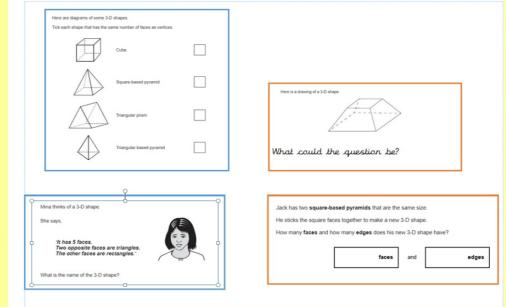
Faces

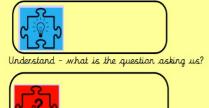
Vertices Edge

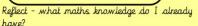
Bonus: Try to name the shape



Reasoning









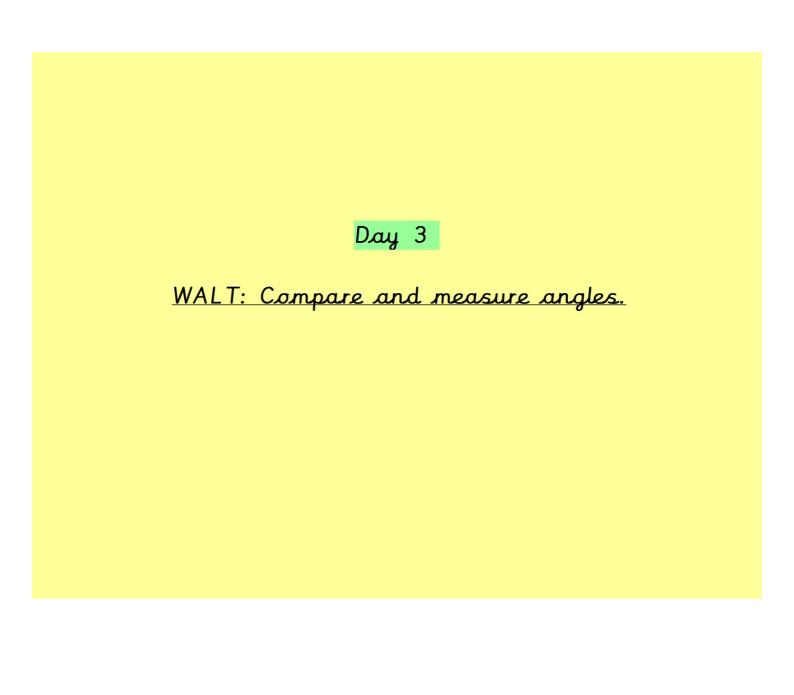
Draw it - bar model, part/whole. number line..

Plenary



Day 2

ADD ALISON



Can you define these key words?



Vocabulary:

acute angle
obtuse angle
right angle
reflex angle
straight line
protractor
estimate

Match up the definition and the diagram to the different types of angles:

Acute angle

The angle is 90°

Right angle

The angle is less that 90°

Obtuse angle

The angle is greater than 90° but less than 180°

Reflex angle

The angle is greater than 190° but less than 360°

Discuss this with your partner:

Complete the sentences.				
Use the word bank to help you.				
90 180 greater less				
a) A right angle is degrees.				
b) An acute angle is than degrees.				
c) An obtuse angle is than degrees				
but less than degrees.				

Language focus

"An acute angle is smaller than a right angle."

"An obtuse angle is larger than a right angle but less than the angle on a straight line."

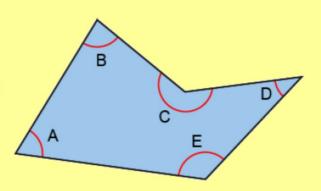
"A reflex angle is larger than the angle on a straight line, but less than the angle for a full turn."



Let's compare these angles using our language:

For example:

D is the smallest angle. It is an acute angle.



C is the largest angle. It is a reflex angle.

Language focus

"An acute angle is smaller than a right angle."

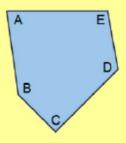
"An obtuse angle is larger than a right angle but less than the angle on a straight line."

"A reflex angle is larger than the angle on a straight line, but less than the angle for a full turn."



Let's compare these angles using our language:

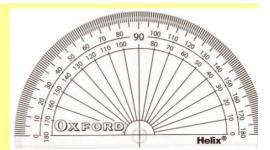
Here is an irregular pentagon.



- a. Which is the largest angle in this pentagon?
- b. Which is the smallest angle?
- c. Which angle is 100°?

<u>W</u>	ALT: Compare and meas Which angle is larger?		i <mark>ngles.</mark> Vhich angle is larger?	
1.	Why?		Vhy?	
<u>_</u>		_		Ш,

We can use protractors to measure angles accurately.

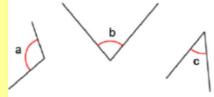


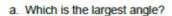
Teacher to get the protractor tool and model how to measure the angle:



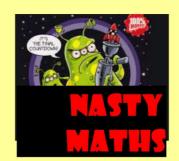
Challenge:

. Here are 6 angles.





b. Which is the smallest angle?



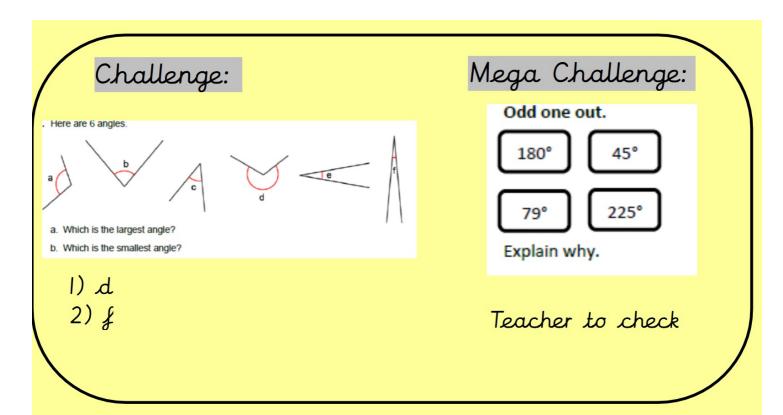
Mega challenge:

Odd one out.

180°

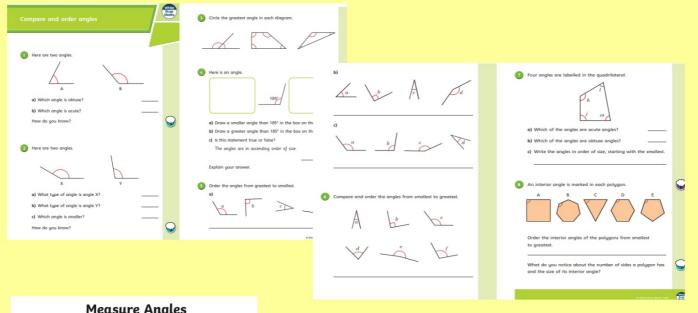
79° 225°

Explain why.

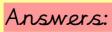


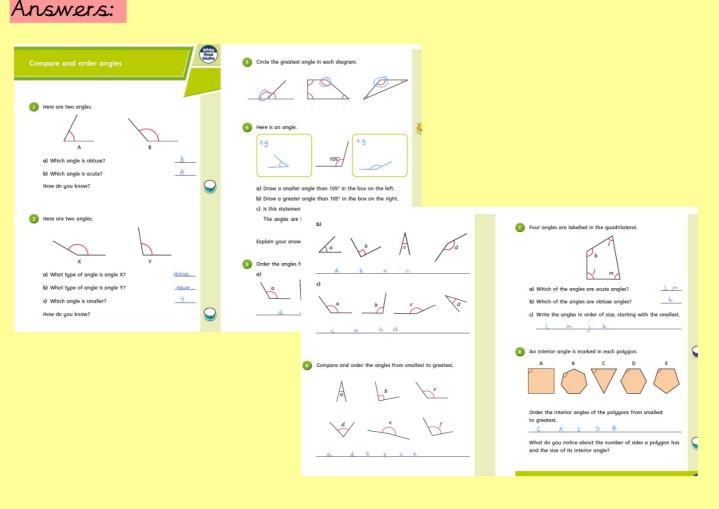
If you correctly answered <u>all</u> of the mega challenge question, move on to fluency.

If you did not answer <u>all</u> the mega challenge correctly, stay with me to learn more.

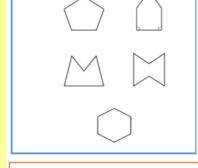


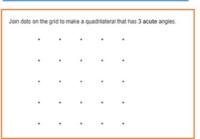
When you have finished, you can get a protractor and measure some angles. Then you can make some of your own for your partner to measure.

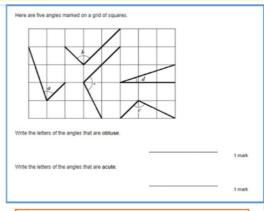




WALT: Compare and measure angles. Reasoning

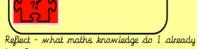














Draw it - bar model, part/whole. number line..

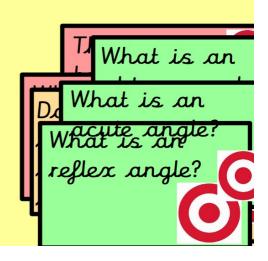


WALT measure and draw angles.

WALT measure and draw angles.

Pick a card. Any card!





WALT measure and draw angles.

Today we are going to measure and draw angles.



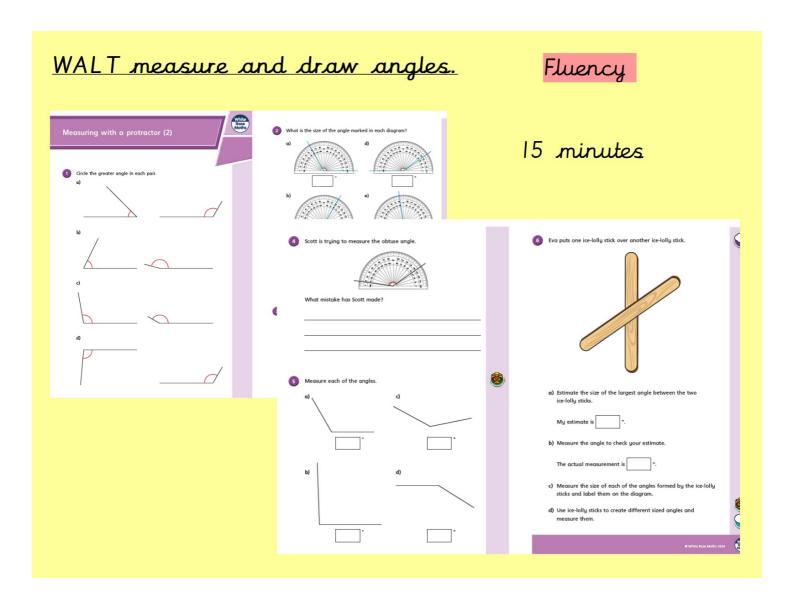
We are going to be using protractors to help us.

Teacher to get the protractor tool and model how to measure the angle:

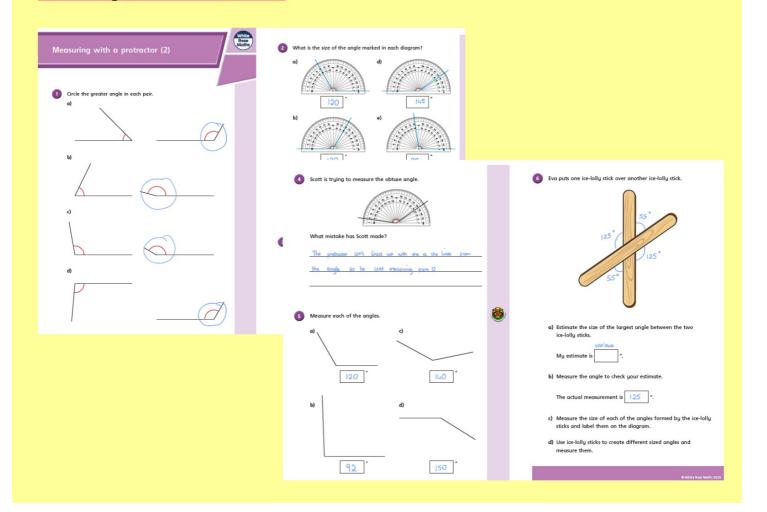


Protractor game: 😥



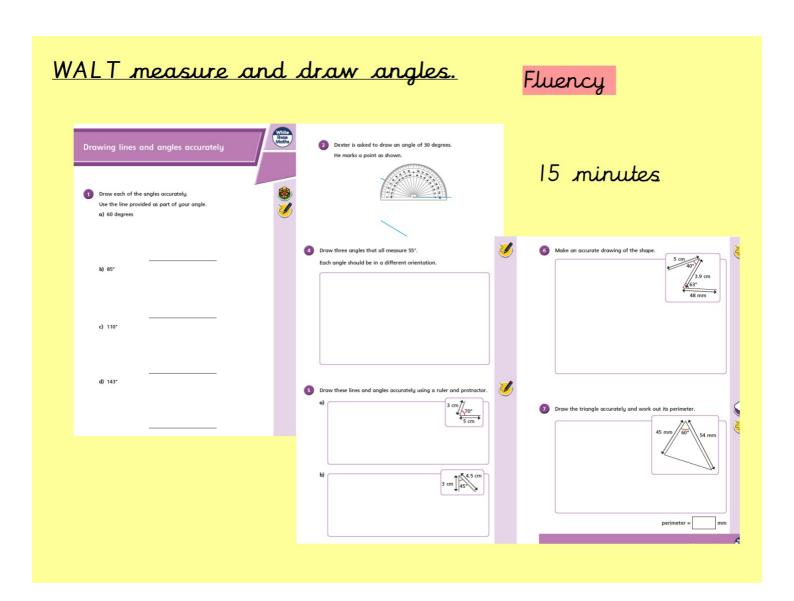


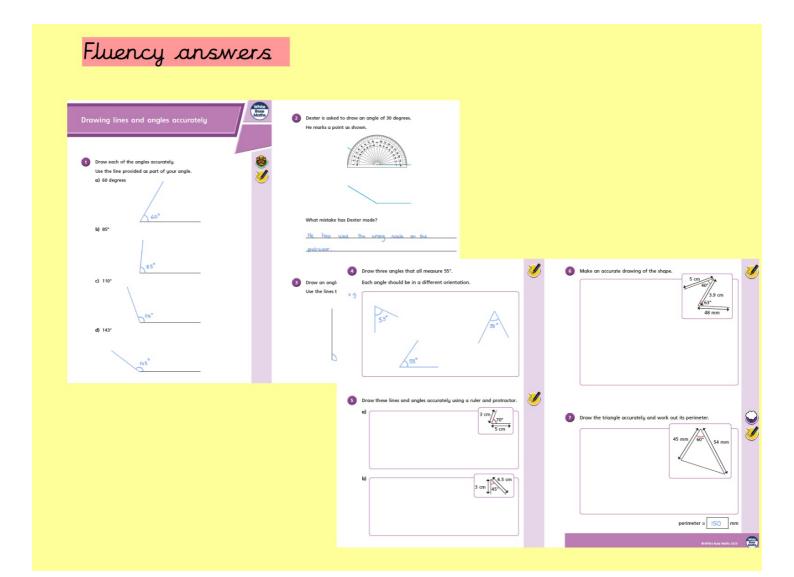
Fluency answers



WALT measure and draw a	ingles.
We are going to be using pro	otractors to help us.
Teacher to get the protracto draw angles:	r tool and model how to
20 °	
	75 [°]
150°	

Drawing angles game:





Plenary: If I draw a line from the dot to the left end of the line it will make a 50° angle.







Understand
Communicate
Reflect





