# Ready-to-go Lesson Slides Year 2 

Please note:
2-D shapes and sorting hoops or similar would be needed for this lesson.

## Geometry: Properties of Shapes <br> Lesson 6

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## To sort 2-D shapes

## Success Criteria:

I I can sort 2D shapes into different groups

- I can describe how I have sorted shapes using terms like "symmetrical", "side", and "vertex".


## Starter:

Aisha has found a vertical line of symmetry on a shape. She folded along the line of symmetry and then cut along the line.


These are the identical shapes that she now has. What was the shape she started with?


## To sort 2-D shapes

## Starter:

Aisha has found a vertical line of symmetry on a shape. She folded along the line of symmetry and then cut along the line.
 These are the identical shapes that she now has.
What was the shape she started with?

## Aisha now has two identical squares. She started with a rectangle.



## To sort 2-D shapes

## Talking Time:

Can you sort these 2-D shapes into the correct groups?


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## To sort 2-D shapes

## Talking Time:

Some 2-D shapes have been sorted into groups. However, one of the shapes is in the wrong place. Which shape is it?
Which group should it have been sorted into?


## To sort 2-D shapes

## Talking Time:

Some 2-D shapes have been sorted into groups. However, one of the shapes is in the wrong place. Which shape is it?
Which group should it have been sorted into?
The irregular pentagon is in the wrong place. It should be in the shapes with 5 vertices group.


## To sort 2-D shapes

Activity 1: Here is a Venn diagram.
Can you put the shapes into the right places? Where will the octagon go? Why?


## To sort 2-D shapes

Activity 1: Here is a Venn diagram.
Can you put the shapes into the right places? Where will the octagon go? Why?


The octagon has more than 4 sides and it is not green. That is why it is not in the hoops and stays outside.

## Extension:

Can you use the same shapes and the same sorting diagram, but think of two different labels?

## To sort 2-D shapes

## Talking Time:

How have these shapes been sorted?
Can you write some labels for the sorting hoops?


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Hint: think about the focus from the last lesson.

## To sort 2-D shapes

## Talking Time:

How have these shapes been sorted?
Can you write some labels for the sorting hoops?

```
shapes with a vertical
line of symmetry
```


shapes with no vertical line of symmetry

Hint: think about the focus from the last lesson.

## To sort 2-D shapes

Talking Time: Some 2-D shapes have been sorted into this Venn diagram. Can you complete the labels?


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Talking Time: Some 2-D shapes have been sorted into this Venn diagram. Can you complete the labels?


## To sort 2-D shapes

## Activity 2 :

Can you work out which shape is in the wrong place? Can you explain or show why it should be in the other part of the sorting diagram?


## To sort 2-D shapes

## Activity 2:

Can you work out which shape is in the wrong place? Can you explain or show why it should be in the other part of the sorting diagram?


The irregular hexagon is in the wrong place.
It is a hexagon and has 6 vertices.

## To sort 2-D shapes

## Talking Time:

Jenson is going to sort some shapes by the number of vertices.
He will sort them into this diagram.
Can you draw three shapes that could go into each section?


| shapes that have 4 <br> vertices | shapes that do not have 4 <br> vertices |
| :--- | :--- |
|  |  |
|  |  |
|  |  |

## To sort 2-D shapes

## Talking Time:

Jenson is going to sort some shapes by the number of vertices.
He will sort them into this diagram.
Can you draw three shapes that could go into each section?


| shapes that have 4 <br> vertices | shapes that do not have 4 <br> vertices |
| :--- | :--- |
|  |  |

This is one set of answers. You may have drawn other shapes for each section.

## To sort 2-D shapes

## Talking Time:

Bella is going to sort some shapes by the number of sides.
She will sort them into this diagram.
Can you draw three shapes that could go into each section?


| shapes that have fewer <br> than 5 sides | shapes that have more <br> than 5 sides |
| :--- | :--- |
|  |  |
|  |  |
|  |  |

## To sort 2-D shapes

## Talking Time:

Bella is going to sort some shapes by the number of sides.
She will sort them into this diagram.
Can you draw three shapes that could go into each section?


| shapes that have fewer <br> than 5 sides | shapes that have more <br> than 5 sides |
| :--- | :--- |
|  |  |

## To sort 2-D shapes

## Activity 3:

Freddie is ordering the 2-D shapes below.
He is putting the shape with the largest number of vertices first and the shape with the smallest number of vertices at the end. Can you help him to order the shapes on the track?


## To sort 2-D shapes

## Activity 3:

Freddie is ordering the 2-D shapes below.
He is putting the shape with the largest number of vertices first and the shape with the smallest number of vertices at the end. Can you help him to order the shapes on the track?


## To sort 2-D shapes

## Evaluation:

Here is a collection of 2-D shapes.
Can you decide how you might sort them all into the sorting diagram?
Can you write your labels?

| shapes that | shapes that |
| :--- | :--- |
|  |  |
|  |  |
|  |  |



## To sort 2-D shapes

## Evaluation:

Here is a collection of 2-D shapes.
Can you decide how you might sort them all into the sorting diagram?
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| shapes that have fewer <br> than 5 vertices | shapes that have more <br> than 5 vertices |
| :--- | :--- |

## Success Criteria:

- I can sort 2D shapes into different groups
$\square$ I can describe how I have sorted shapes using terms like "symmetrical", "side", and "vertex".

This is one set of answers. There will be others.

Can you explain your answers?

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