

A Number Fun Quick Link Guide for:



White Rose Maths



Year: 



Geometry: Properties of Shape

Spring Term 2022:

Block: 

Weeks:  to 

Here is a quick reference guide to help you link the White Rose Planning with the Number Fun Resources.

This document contains hyperlinks to:

Key Number Fun Song Video – the ideal video to help children begin to explore this small step.

Additional Number Fun Links – additional resources to support and extend the learning within this small step.

Check out our [Guide to using Number Fun Videos and Portal effectively](#). Many Number Fun videos are accompanied by Teacher Ideas Packs, designed to provide creative games and activities to support the teaching of each objective.

For information about all the Number Fun Training, Consultancy and Resources visit: www.numberfun.com.

Hyperlinks:



Click the Video Thumbnail

The hyperlink will take you to this song's page on the Number Fun Portal

(Note: You will need to log into the Number Fun Portal to access each song's resources.)



Click the Icon Thumbnail to hyperlink to this resource in the Number Fun online Shop



Click the Concept Teaching Video Thumbnail to hyperlink directly to the video

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Top Number Fun Warm-Up Suggestions



Papa Titoning is partitioning two-digit numbers into combinations of tens and ones. This is a vital Year 2 objective to master. Highlight the shape of the logs - a real life example of a cylinder!



This video explores number bonds to 12 in a story context. Pause the video at, e.g. 0:21, and reason about the image. Which 2-D and 3-D shapes can you see. Are the song words in rectangles? If not, why not?

Top Number Fun Shop Suggestions

All shop suggestions are downloads unless highlighted otherwise.



Shape Posters - Basic Set

This downloadable PDF includes 10 posters featuring 2-D and 3-D shapes. Shapes are shown from different perspectives and orientations, using graphics and photographs from everyday life.

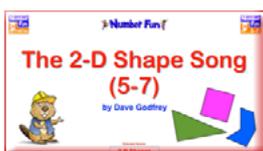


Shape Cards - Basic Set

This downloadable PDF includes the images of 2-D and 3-D shapes found in the Shape Posters - Basic Set. These cards are ideal for sorting, game playing, trading and reasoning about these shapes.

Small Steps

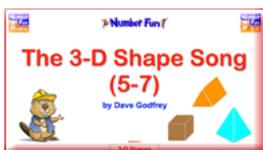
1: Recognise 2-D and 3-D shapes



These two videos encourage children to recognise specific 2-D and 3-D shapes from a line up that is presented.



Bear is out in the garden and there are 3-D shapes everywhere! This 5 minute video is found at the bottom of the 3-D Shape Song page. The commentary is designed to help children become familiar with shape 3-D vocabulary.



Also check out the versions of these videos found in the 3-5 phase for additional shapes.

2: Count sides on 2-D shapes



The Polygon Memory Song helps children learn how many sides there are in each polygon. Shapes explored range from triangles through to octagons.



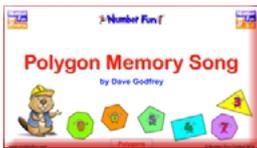
Shape Cards - Basic Set

This downloadable PDF includes the images of 2-D and 3-D shapes found in the Shape Posters - Basic Set. These cards are ideal for sorting, game playing, trading and reasoning about these shapes - including counting the number of sides.

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3: Count vertices on 2-D shapes



Return to this video and reason about the number of vertices on each shape represented. Can your children sing over the video (or use the backing track) and replace the word 'sides' with 'vertices'. Does the mathematics work?



Shape Cards - Basic Set

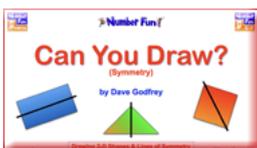
This downloadable PDF includes the images of 2-D and 3-D shapes found in the Shape Posters - Basic Set. These cards are ideal for sorting, game playing, trading and reasoning about these shapes - including counting the number of sides.

4: Draw 2-D shapes



This simple video can be used alongside the creation of shapes on a pegboard or the drawing of shapes on a whiteboard. Children are challenged to draw: triangles, squares, rectangles, quadrilaterals, pentagons and hexagons.

5: Lines of symmetry



This simple video extends the use of the video found in the previous step. This time children are encouraged to draw a shape and highlight a line of symmetry. Again the shapes featured are: triangles, squares, rectangles, quadrilaterals, pentagons and hexagons.



Shape Cards - Basic Set

Challenge your children to draw lines of symmetry on the 2-D shape images. The images include irregular polygons... Can they spot any lines of symmetry on these shapes?

6: Sort 2-D shapes



Shape Cards - Basic Set

This downloadable PDF includes the images of 2-D and 3-D shapes found in the Shape Posters - Basic Set. These cards are ideal for sorting, game playing, trading and reasoning about these shapes - including counting the number of sides.

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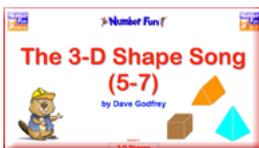
Geometry: Properties of Shape

7: Make patterns with 2-D shapes



Pattern Parrot loves making patterns! In this video Pattern Parrot is creating shape patterns - the first two verses feature 2-D shapes. Can you continue the patterns or duplicate the patterns he creates?

8: Count faces on 3-D shapes



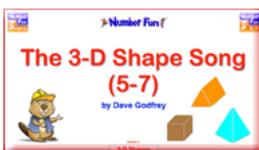
Return to this video. Pause and reason at different points. Compare the 3-D shapes that are presented. What is the same, what's different? Provide children with 3-D shapes that mirror those on the screen and reason together.



Shape Cards - Basic Set

This downloadable PDF includes the images of 3-D shapes found in the Shape Posters - Basic Set. Play a speed game. Children turn over a card and have to state the number of faces on the image shown.

9: Count edges on 3-D shapes



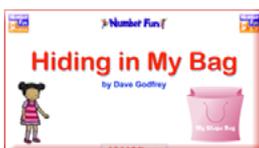
Return to this video again to reason. Polygons have the same number of sides and vertices. Is this true with 3-D shapes. Is it ever true? Pause and reason as appropriate.



Shape Cards - Basic Set

Repeat the game suggested in the previous small step. This time children turn over a card and have to state the number of edges on the image shown.

10: Count vertices on 3-D shapes



This video is setting up a game you can play in the classroom. Hide a 3-D shape in a bag and describe its properties. This can lead to problem solving. E.g. 'My shape has 6 rectangular faces and 8 vertices. How many edges does it have?'

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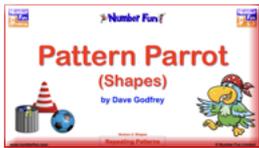
Geometry: Properties of Shape

11: Sort 3-D shapes



Bear is out in the garden and there are 3-D shapes everywhere! In this 5 minute video Bear sorts the shapes out with reference to their properties and key vocabulary. Do you agree with Bear's sorting?

12: Make patterns with 3-D shapes



Pattern Parrot loves making patterns! In this video Pattern Parrot is creating shape patterns - the latter two verses feature 3-D shapes. Can you continue the 3-D shape patterns or duplicate the patterns he creates? Can you create your own 3-D shape patterns?