



## Year 2

Remote Learning

### Maths Week 16 (w.c. 6.7.20)

#### Message

Hello Year 2,

We hope you had lots of fun learning about mass, capacity and volume last week. As this is a special week for us and we will be in school for 2 days, there are only 3 lessons for you to complete. This week, we are learning more about making **patterns and shapes**. This is an area that we touched upon while looking at position and direction.

By the end of the three lessons you will be able to spot, describe and create shape patterns, including growing patterns.

Remember, you can send any of your learning to: [year2@coleridgeprimary.net](mailto:year2@coleridgeprimary.net). We really love seeing what you have been up to.

Take care,  
Ms Creamer, Mr Heidensohn, Miss Ibbotson  
and Mr Ibbotson

#### Parent Message

Dear Parent,

This week's maths is consolidation of the objective, to order and arrange combinations of mathematical objects *in patterns*, that we looked at briefly during our week on position and direction. These lessons will build on what we learned previously as well as introducing more learning.

This week, there are two lessons with online videos and one lesson using the MyMaths website. They will all clearly take the children through the learning and activities.

As we have said before, everyone's family situation and time available for home learning is different, so please feel free to tailor these lessons to suit your family, picking whatever works best for you!

Best wishes,  
The Year 2 Team

#### Website Links

##### PE-Supermover- refresh your memory about position and direction:

<https://www.bbc.co.uk/teach/supermovers/ks1-maths-position-&-direction/zhh9scw>

##### Karate Cats

Play the shapes level of Karate Cats Maths - can you collect a cool new costume for your cats?

Scroll down to activity 3 on this page:

<https://www.bbc.co.uk/bitesize/articles/z338bqt>

##### Create your own patterns:

<https://www.coolmath4kids.com/manipulatives/pattern-blocks>

##### Shape Patterns

<https://www.topmarks.co.uk/ordering-and-sequencing/shape-patterns>

#### Answers

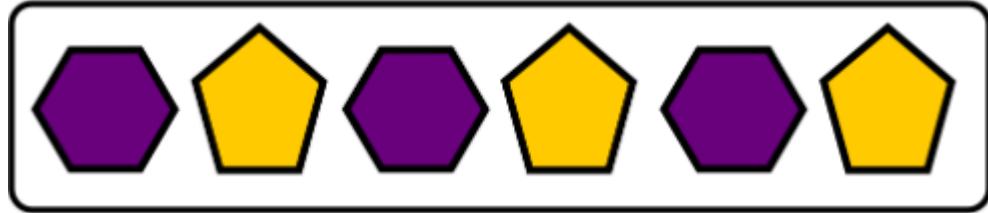
Answers to Quiz A: b,c,b,d,c,b,d,c

Answers to Quiz B: c,b,a,b,b,d,a,d

## Lesson 1 – To recognise repeating patterns

**You will need:** Lesson 1- activity 1 and 2, pen and paper.

**Keywords:** shape, pattern, square, circle, diamond, tilted-square, 3D shapes, mirror patterns, repeated patterns, pyramid, cuboid, cube, cylinder,



**Introduction:** In this lesson you will learn how to recognise and describe patterns made from 2D and 3D shapes.

To begin today's lesson, you will think about a pattern that repeats. You will name each shape and listen to the pattern as you name them. Then, you will use that rhythm to find the part of the pattern that repeats so we can answer questions about the pattern.

Once we have practised identifying a repeating pattern, we will look at a mirror pattern. This type of pattern is the same whether you start from the left or the right.

To begin, let's watch this video with some missing parts of a shape pattern. We will find the part of the pattern that repeats to work out the missing shapes.

**Watch the video here:** 2D and 3D shape: Shape patterns part A: <https://www.bbc.co.uk/bitesize/articles/z338bqt>

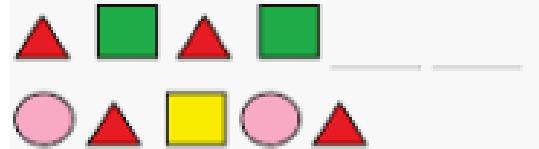
**Activity 1: Patterns of 2D shapes** - The activities in this worksheet will help you practise working with repeating patterns. Remember, the first thing you need to do is work out the part of the pattern that repeats!

**Part B-** In this next short video, we will look at a different type of pattern that is the same backwards as it is forwards. They are called mirror patterns **Watch the second video-** called 2D and 3D shape patterns, Part b: <https://www.bbc.co.uk/bitesize/articles/z338bqt>

**Activity 2: Making patterns with 2D shapes**- These questions will help you practise and feel confident with repeating patterns. If you are finding it tricky to find the part of the pattern that repeats, try saying the names of the shapes out loud to see if you can hear the pattern!

## Lesson 2 – To describe and create shape patterns

**You will need:** Pen and paper, Lesson 2- Activity 1- create your own shape pattern.



**Keywords:** shape, pattern, repeating, size, recurring sequence, pentagon (5 sided shape), hexagon

**Introduction:** This lesson is from the Oak National Academy, we will think about describing shape patterns, as well as creating our own shape patterns.

The lesson begins with a quiz before moving onto describing shape patterns with a discussion. We will then look at creating shape patterns before you do independent activity 1. Finally, the video will go through some answers before you do the final quiz!

Find the lesson at Oak National Academy, Year2- Maths, Face, shapes and patterns, Lesson 6- To describe and create shape patterns: <https://classroom.thenational.academy/lessons/to-describe-and-create-shape-patterns/activities/2>

**Activity 1:** On this worksheet, you will have a go at creating 3 different repeating patterns. The first one tells you to use 3 different shapes, the second tells you to use a pentagon (5sided shape) and the final one uses 1 shape but in different sizes.

**Activity 2:** Challenge someone to complete your patterns! Create and draw the beginning of a pattern for someone else to complete. You can draw it on paper or create some online

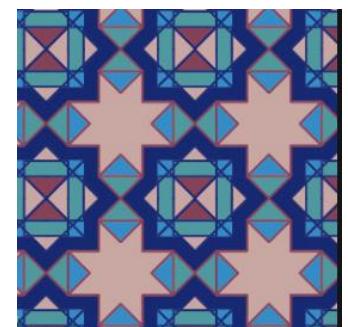
<https://www.coolmath4kids.com/manipulatives/pattern-blocks>

Can you change the shape?

Colour?

Size?

or Position? (Use your position and direction language by creating patterns with shapes that are making quarter turns, half turns or three quarter turns!)



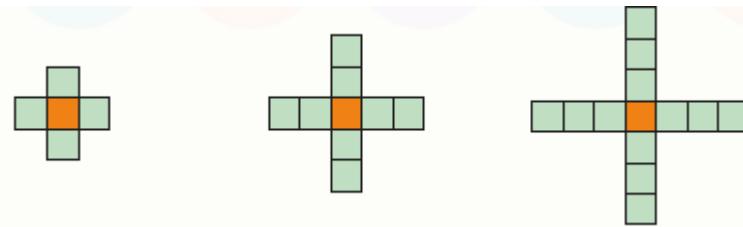
We would love to be challenged so you can send your patterns to [year2@coleridgeprimary.net](mailto:year2@coleridgeprimary.net)!

## Lesson 3 – To complete increasing patterns

**You will need:** MyMaths login code: coleridge1 password: success74.

Lesson 3 - Quiz A, Lesson 3 - Quiz B and Lesson 3 - Growing patterns.

**Keywords:** Growing patterns



**Introduction:** So far we have gone back over patterns that change in colour, shape or size and position. Now, we look at patterns that don't repeat but increase, called growing patterns.

Complete this lesson in **Geometry- Position and Direction- Year2- Patterns and sequences**. There are 8 learning points to go through with activities but you can skip the first 5 parts if you are feeling confident.

Link to website: <https://app.mymaths.co.uk/3279-lesson/patterns-and-sequences>

**Activity 1:** Have a go at completing these growing patterns. **Remember growing patterns use rules to show what is added and how much is added at each step.**

**Activity 2:** Finally, test Yourself on your learning this week!- You can do both quizzes attached or just one- they are the same questions just phrased in a different way! Answers are found at the top of the page.

**Best of luck!**