Maths Planning and Ideas

Week Commencing: 22nd June 2020

Year Group: 2

Note to parents:

This week's planning will be recapping 2D and 3D shape. For any children who are very confident in working through the White Rose worksheet, I have attached some additional activities at the bottom of the planning to further deepen children's understanding.

Please be aware that there are more questions that usual attached for some of the lessons this week. Please do not feel your child needs to do them all, you are free to pick out 2 or 3 questions from each section for them if you wish. I have added some extension activities for Tuesday, but hope you can find plenty of activities within the worksheets for the other days.

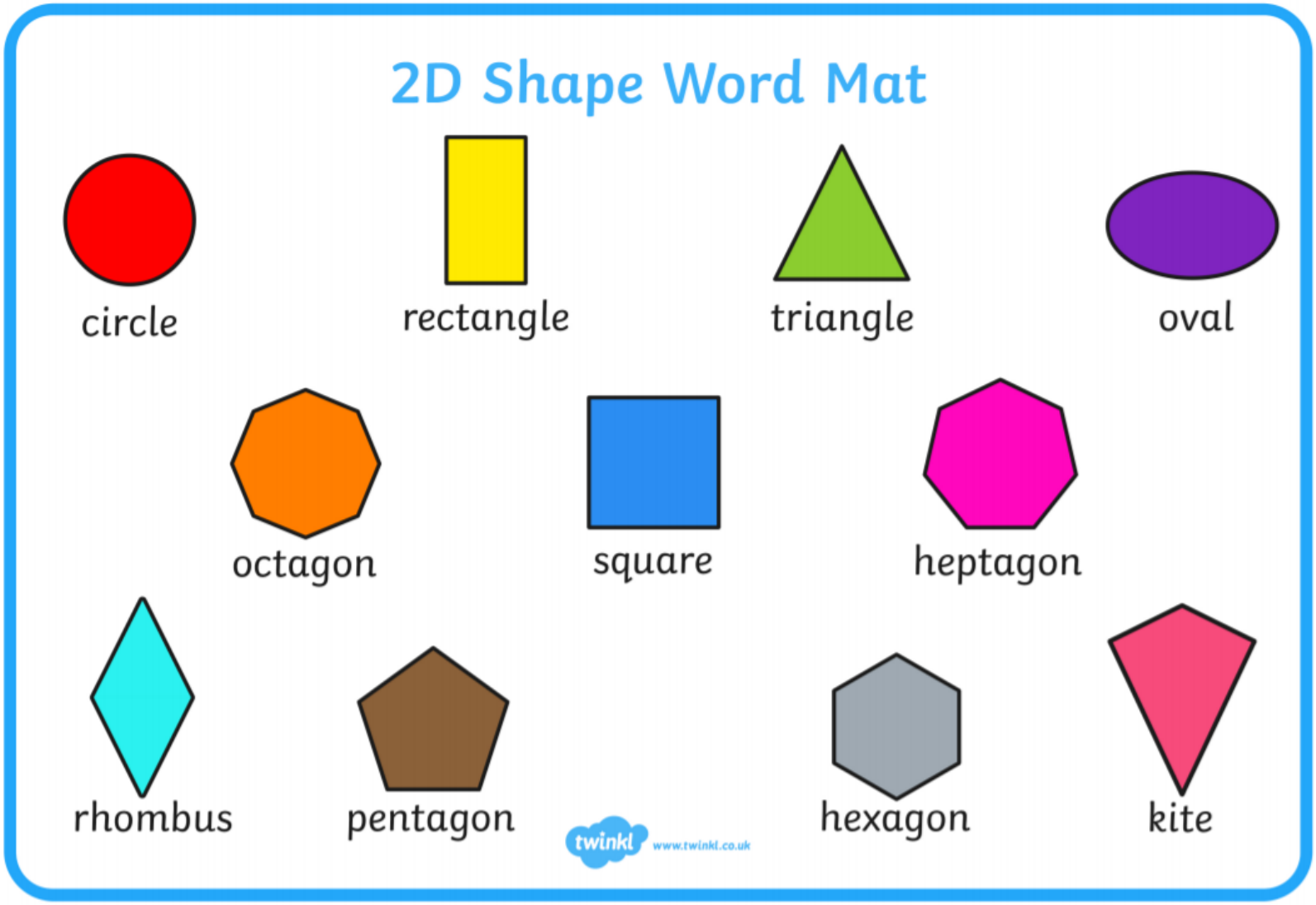
Hope you are all well. Mrs Phillips.

	Monday	Tuesday	Wednesday	Thursday	Friday
Area of Learning	LC: Can you count sides and vertices on 2D shapes?	LC: Can you count faces, edges and vertices on 3D shape?	LC: Can you sort 2D and 3D shapes?	LC: Can you make patterns with 2D and 3D shapes?	Challenge Day
Activity	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y2 children.* **Main:** • Please follow the link below to find the White Rose resources. We are using Summer Term – Week 8 – Week commencing 15. 6. 20. • https://whiterosemaths.com/homelearning/year-2/ • Please complete lesson 1.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y2 children.* **Main:** • Please follow the link as yesterday and complete lesson 2. • Please watch the video and then complete the worksheet. • Watch the video. •	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y2 children.* **Main:** • Please follow the link as yesterday and complete lesson 3. • Please watch the video. **Independent:** Please complete some of the worksheets. There are quite	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y2 children.* **Main:** • Please follow the link as yesterday and complete lesson 4. • Please watch the video. **Independent:** Please complete the worksheets.	**Starter:** Times Table Rockstar *Battle of the Bands and Garage challenges have been set for Y2 children.* **Main:** • Today I would like you to go on a shape hunt. • You could do this in your house, garden or out on a walk.

	• Watch the video. **Independent:** There are some 2D shapes on a sheet. Cut them out and arrange then to make a picture. Try to name all of them and count the number of sides and vertices on each one. If you wish to complete additional activities, there are some extension sheets attached in the resources.	**Independent:** Today I would like you to be creative. Could you make some 3D shapes? You could use straws, playdough, lolly sticks or even sticks. In the resources there are some photographs to help you and there is a 3D shape mat to help you remember the names of them. Try to count the number of faces, vertices and edges on each shape. If you would rather complete a worksheet, I have also attached some in the resources.	a few for you to choose from today. I would suggest you choose one worksheet sorting 2D shapes and one sorting 3D shapes.	There are two extension worksheets for today if you wish to complete these too.	• Try to see how many 2D and 3D shapes you can find. • I would love to know any really interesting ones that you have noticed. • I have attached a shape hunt scavenger sheet for you. • Enjoy hunting!

Supporting Resources for Maths

Monday 22nd June



Monday - Extension

Count sides on 2D shapes

1 Complete the sentences to describe the shapes.

a)

A pentagon has ☐ sides.

b)

A triangle has ☐ sides.

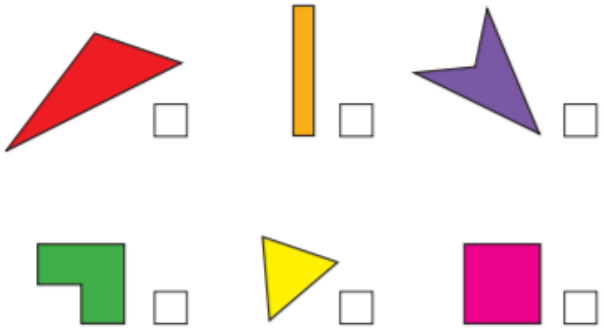
c)

A _____ has ☐ sides.

d)

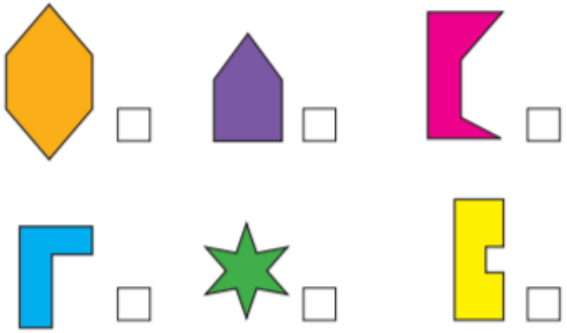
A _____ has ☐ sides.

2 Tick the 4-sided shapes.



Did your partner tick the same shapes?

3 Tick the 6-sided shapes.



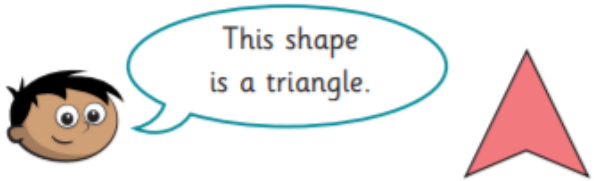
Compare answers with a partner.

Monday - Extension

4 Complete the table.

Name	Shape	Number of sides
		3
pentagon		
		6
square		
		8

5



Is Amir correct? _____

How do you know?

6 Use 15 lolly sticks to make three shapes.

Draw your shapes.

Did your partner make the same shapes?

What happens if you use more or fewer lolly sticks?

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Monday - Extension

4 How many vertices does each shape have?

a) ☐

b) ☐

c) ☐

d) ☐

e) ☐

f) ☐

How did you count the vertices?

5

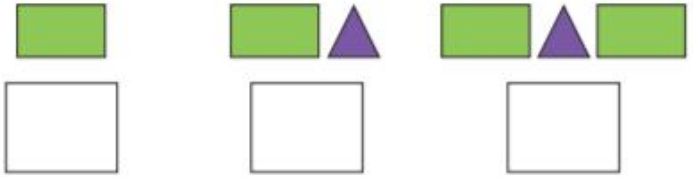
My shape has more vertices than a triangle, but fewer than a hexagon.

What shape could Ron have? _____

Compare answers with a partner.

6 Rosie is making a pattern out of shapes.

a) How many vertices are in each term of her pattern?

 ☐ ☐ ☐

b) What do you notice?

c) How many vertices will the next term have?

☐

d) Create your own pattern with shapes.

Count the number of vertices in each term.

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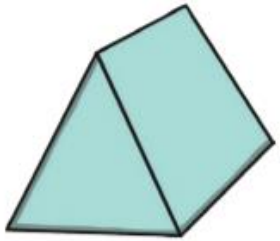
Tuesday

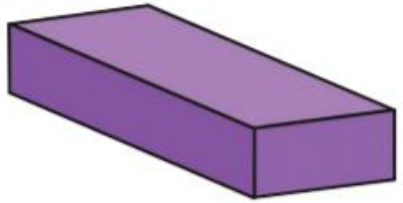
3D Shapes

square-based pyramid

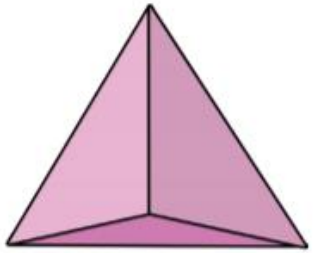


triangular prism

cone



cuboid



tetrahedron

cube

cylinder

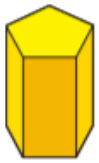
sphere

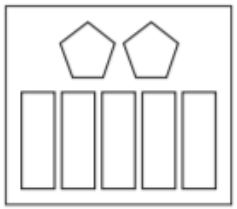
twinkl visit twinkl.com

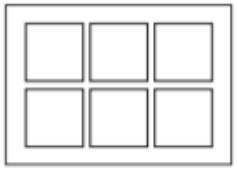
Tuesday - worksheet

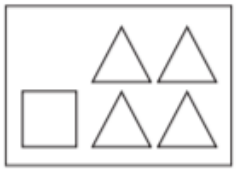
Count faces on 3D shapes

1 Match the shapes to the faces.



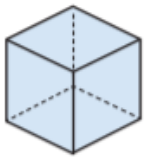


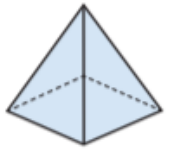


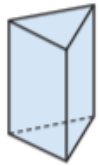


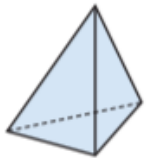
Count edges on 3D shapes

1 How many edges does each shape have?

a)  ☐ edges

b)  ☐ edges

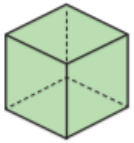
c)  ☐ edges

d)  ☐ edges

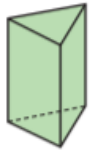
Tuesday - worksheet

Count vertices on 3D shapes

1 How many vertices does each shape have?

a)  ☐ vertices

b) ☐ vertices

c)  ☐ vertices

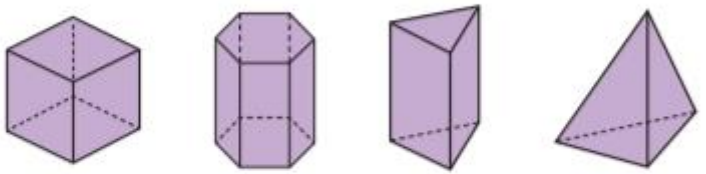
d) ☐ vertices

Complete the table.

Shape	Name	Number of vertices	Number of edges	Number of faces

Tuesday extension

4 Use the clues to label the shape with the correct letter.



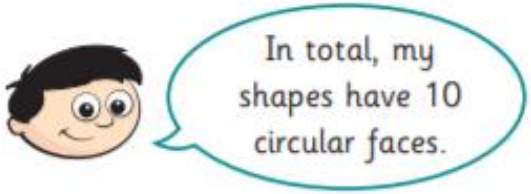
_____ _____ _____ _____

- Shape A has an odd number of edges.
- Shape B has the most edges.
- Shape C has the same number of edges as a cube has faces.
- The edges of shape D are all the same length.

5 Write the name of two 3D shapes that have the same number of edges.

_____ and _____

6 Dexter has 5 of the same 3D shapes.



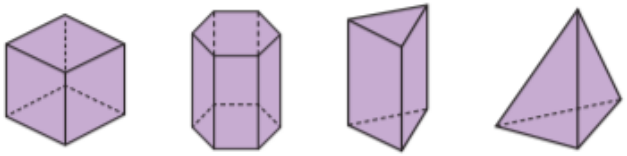
What shapes has Dexter got?

Dexter has got 5 _____

Tuesday extension - continued

3 Write the shapes in order of the number of vertices.

Start with the shape that has the fewest vertices.



A B C D

fewest most

_____ _____ _____ _____

4 Complete the sentences.

more fewer

a) A cube has _____ vertices than a sphere.

b) A sphere has _____ vertices than a cone.

c) A triangular prism has _____ vertices than a cuboid.

5 Match each shape to the correct label.

< 5 vertices

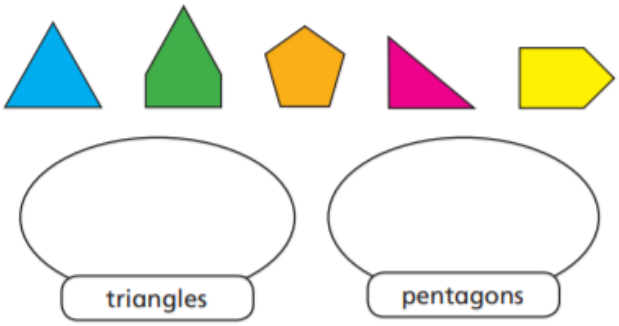
= 5 vertices

> 5 vertices

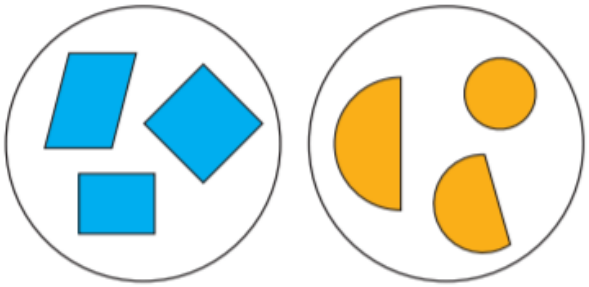
Wednesday

Sort 2D shapes

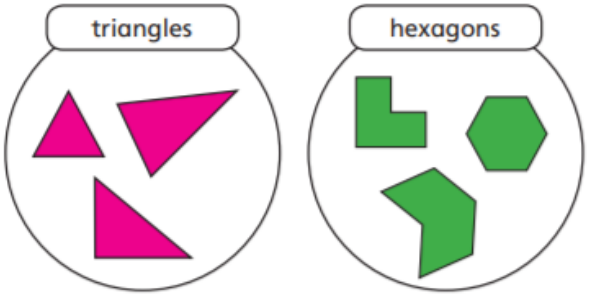
1 Draw lines to sort the shapes into groups.



2 How have the shapes been sorted?



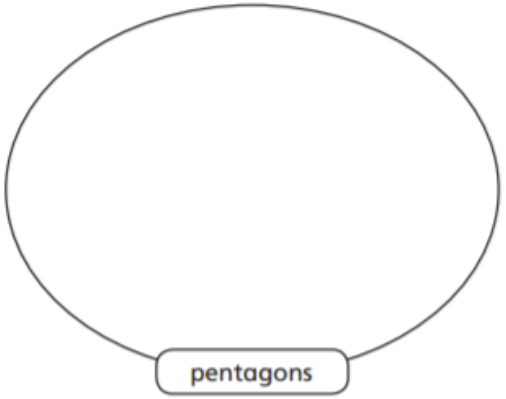
3 Eva sorts some shapes.



a) Is Eva correct? _____

How do you know?

b) Draw a group of three different pentagons.



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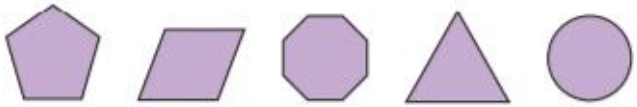
Wednesday – continued

4 **a)** Sort the shapes in order of the number of sides.

Start with the shape that has the fewest sides.



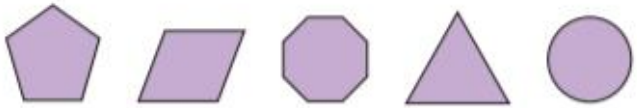
A B C D E

fewest most

____ ____ ____ ____ ____

b) Sort the shapes in order of the number of vertices.

Start with the shape that has the fewest vertices.



A B C D E

fewest most

____ ____ ____ ____ ____

c) What do you notice about your answers to part a) and part b)?

5 Draw three different shapes in each group.

shapes with 4 sides

shapes with an odd number of vertices

shapes with an even number of sides

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Wednesday – continued

Sort 3D shapes

1 Circle the odd one out in each group and complete the sentences.

a)

The odd one out is a _____.

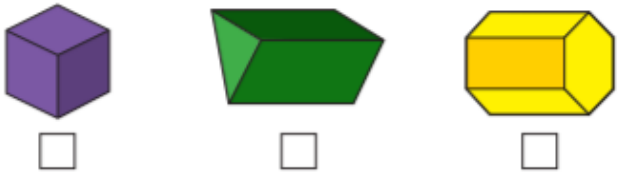
b)

The odd one out is a _____.

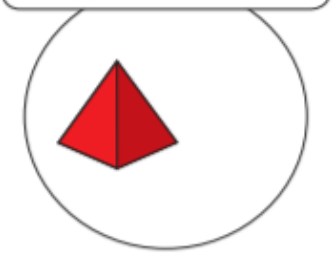
2 Tick the shape that could go in the group.

has a curved surface

3 Tick the shape that could go in both groups.



odd number of faces



even number of vertices

4 How have the shapes been grouped?

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Wednesday – continued

5 Write the name of a 3D shape that could go in each group.

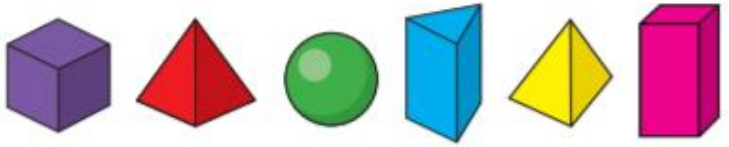
has 5 vertices

has 12 edges

has 1 curved surface

Can you think of any other shapes to go in each group?

6 **a)** Draw lines to sort the shapes into two groups.



Group A

Group B

b) Give each of your groups a label.

Group A: _____

Group B: _____

Compare answers with a partner.

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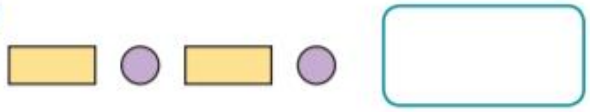
Thursday

Make patterns with 2D shapes

1 Draw the next two shapes in each pattern.

a)

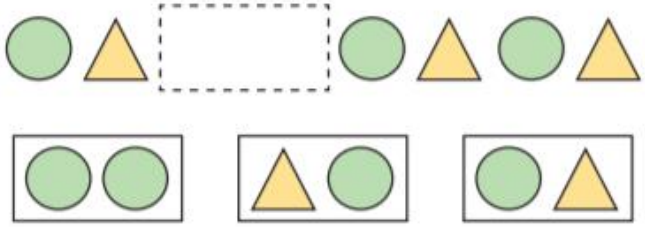
b)



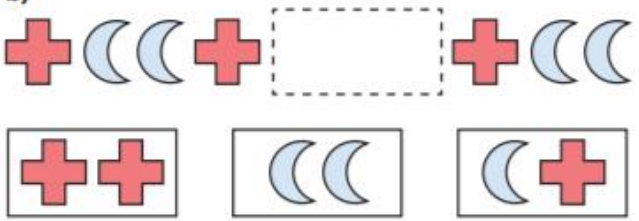
c)

2 Tick the shapes that fit in each pattern.

a)



b)



3

My pattern goes: circle, triangle, square, then it repeats.

a) Draw the first 9 shapes in Rosie's pattern.

b) What is the name of the 10th shape in the pattern?

c) What is the name of the shape to the right of the 5th shape?

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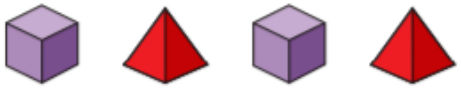
Thursday

Make patterns with 3D shapes

1 Draw the next shape in each pattern.

a) 

b)

c)

d)

e)

2 What is the name of the 3rd shape in the pattern?

_____

3 Here is a pattern made with 3D shapes.

a) Write the name of the 4th shape in the pattern.

_____

b) What would the 13th shape in the pattern be?

_____

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Thursday - extension

4 Mo makes a pattern using 4 rectangles, 4 triangles and 4 circles.

What could Mo's pattern be?

Draw two different possibilities.

5 Draw the 10th shape for each pattern.

a)

b)

6 Write your own repeating pattern of shapes.

For example: circle, rectangle, rectangle, circle, rectangle, rectangle ...

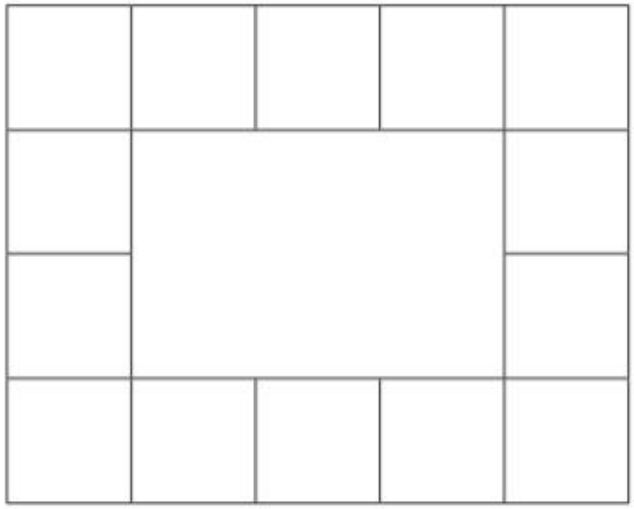
_____, _____, _____, _____,

_____, _____, _____, _____.

Swap with a partner and draw each other's patterns.

7 Draw a shape in each box to make a repeating pattern.

You may want to practise on a whiteboard.



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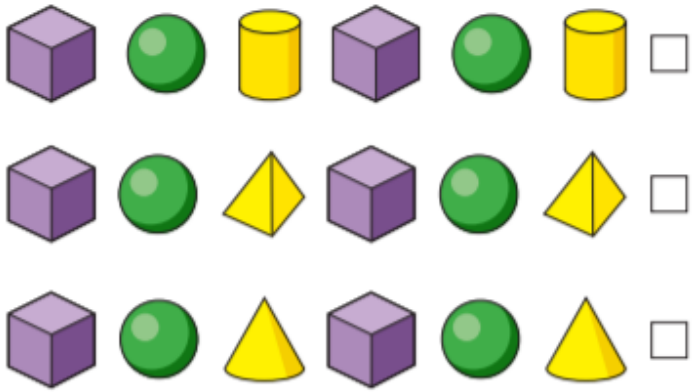
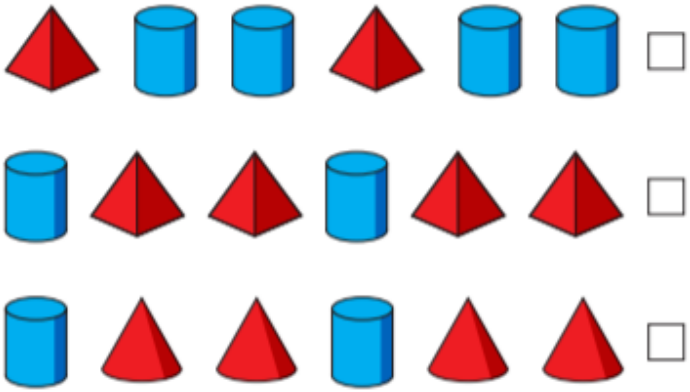
Thursday – extension

4 Tick the row that shows the pattern.

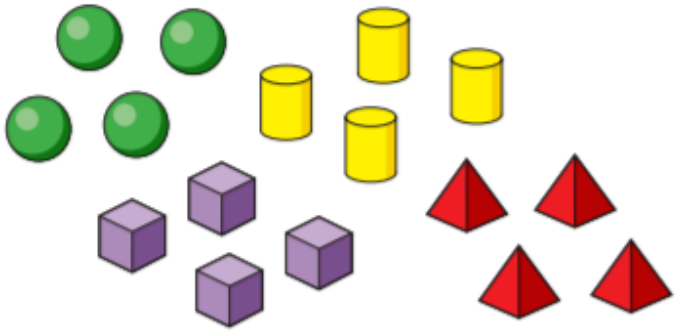
a) cube, sphere, cone, cube, sphere, cone



b) cylinder, pyramid, pyramid, cylinder, pyramid, pyramid



5 Eva is making a pattern using these shapes.



a) What pattern could Eva make?

b) Can you arrange Eva's shapes to make a symmetrical pattern?

c) Compare answers with a partner.

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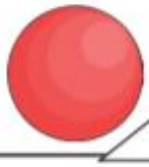
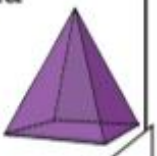
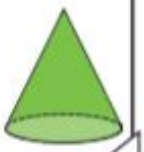
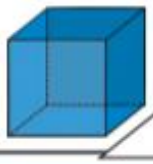
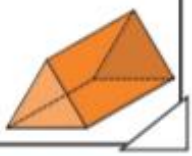
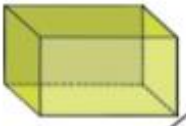
Friday

2D and 3D Shapes Scavenger Hunt

Look for these different shapes around you.

Draw the object that you find and write its name.

circle	square	rectangle
triangle	pentagon	rhombus
hexagon	sphere 	cylinder
square-based pyramid 	triangular-based pyramid	cone 
cube 	triangular prism 	cuboid 

Where can I complete further work?

Twinkl – Subscription service used by schools is offering a free premium service for teachers, parents and children to use whilst schools are closed. Enter the code **UKTWINKLHELPS** for access to worksheets, powerpoints and interactive games to support all areas of learning.

Classroom Secrets – Free Maths, Reading and Grammar home learning packs and interactive resources for all ages.

White Rose Maths – Free Maths home learning resources for all ages. Watch the videos and try the questions.

Primary Stars – Free Maths home learning packs for Year 1 and 2.

BBC Bitesize Primary – Free learning resources available for KS1 and KS2 across all subjects.

I See Maths – Free daily home maths lessons hosted by Gareth Metcalfe. Follow the link for videos, information and resources.

Top Marks – Free educational resources and games for English and Maths.

ICT Games – Free educational resources and games for English and Maths.