

# Friday 22nd May

Dear Year 6,

We hope you and your families are keeping well and have had a good week.

Here are the activities for this week for you to follow and complete. Once you have finished today's activities, use the time to complete any unfinished work from this week.

Try to read for at least 20 minutes a day and take Accelerated Reader quizzes from home by using this link [Howley Grange Renaissance at home](#) and logging on as usual using your username and password. To check that the book you are reading has a quiz, you can check it using on [Accelerated Reader Bookfinder](#). It's okay to read books which haven't got a quiz - just keep a record of what you have read. There are lots of online books at <https://readon.myon.co.uk/> if you have run out at home - and these all have quizzes too!

As always, remember to take time to relax, exercise and be kind to yourselves and each other.

Take care and keep smiling,

Mrs Graham and Mrs North

# English Activity 5 - Year 5 and 6 spellings

**Challenge: how many of these words can you put into a short story?**

## Across

3. your food goes here after you swallow
4. annoyance
5. become more mature
6. someone next door
8. a chance to do something
9. eg, potato, pea, carrot or swede
10. really good
17. houses of \_\_\_\_\_ - where laws are discussed and passed
18. eg car, lorry, bicycle
19. you pay to eat here
20. after eleventh

## Down

1. provide housing for
2. your name written by yourself with a pen
3. offer an idea
7. important to a subject
11. rate highly because of the qualities
12. enough
13. someone in the army
14. honest, well-meaning
15. plenty of different ones
16. medium sized sailing boat

## Maths Activity 5a - ten in ten 😊

1)  $707 + 1818 =$

2)  $\frac{4}{6} + \frac{3}{6} =$

3)  $2.7 + 3.014 =$

4)  $8 \times 33 =$

5)  $\frac{62}{100} - \frac{38}{100} =$

6)  $50 + (36 \text{ divided by } 6) =$

7)  $\frac{4}{6} \times \frac{3}{5} =$

8)  $581 \text{ divided by } 7 =$

9)  $37.8 - 14.671 =$

10)  $4953 \times 48 =$

You know the rule!

Ten minutes to answer ten questions 😊

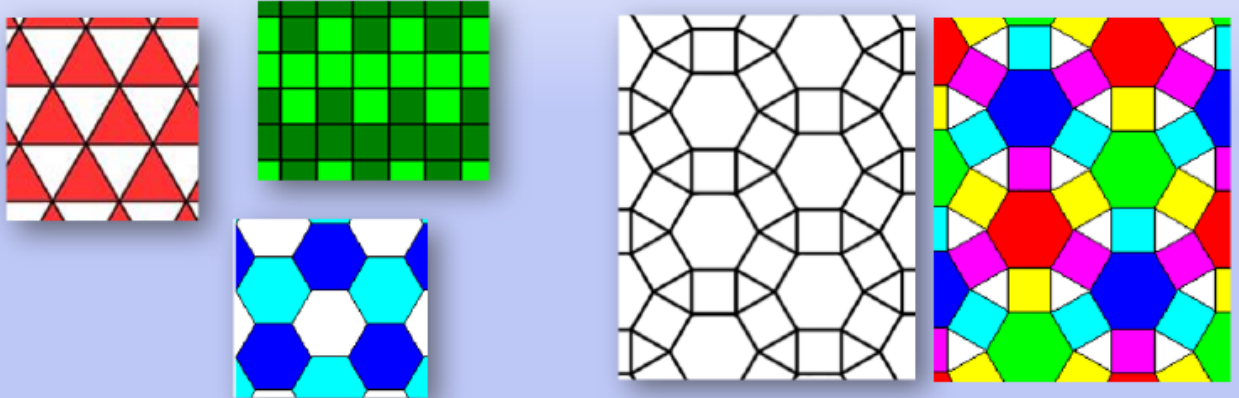
## Maths Activity 5b - Tessellations

We have included a Learning Reminder that will help you with answering today's questions.

# Learning Reminder

## Tessellate 2-D shapes.

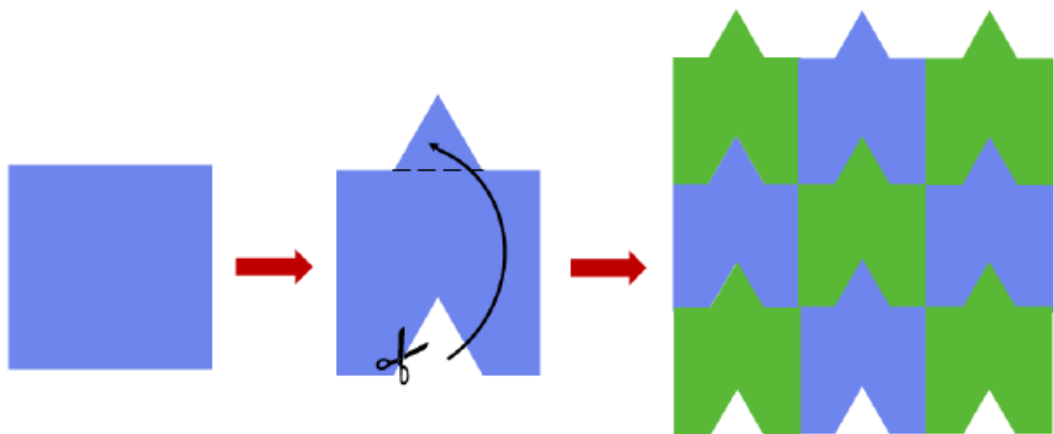
Tessellation is the practice of fitting shapes together without overlapping or leaving gaps.



Greek mathematician Pythagoras discovered that he could fit equilateral triangles, squares and hexagons together to tessellate!  
Mosaics like this were very popular in ancient Greece.

## Tessellate 2-D shapes.

Let's make a tessellating mosaic...



If I stick a cut-out shape **in the same orientation on the opposite side**, the new shape will still tessellate.

# Maths Activity - Investigation

## Make a tessellating mosaic

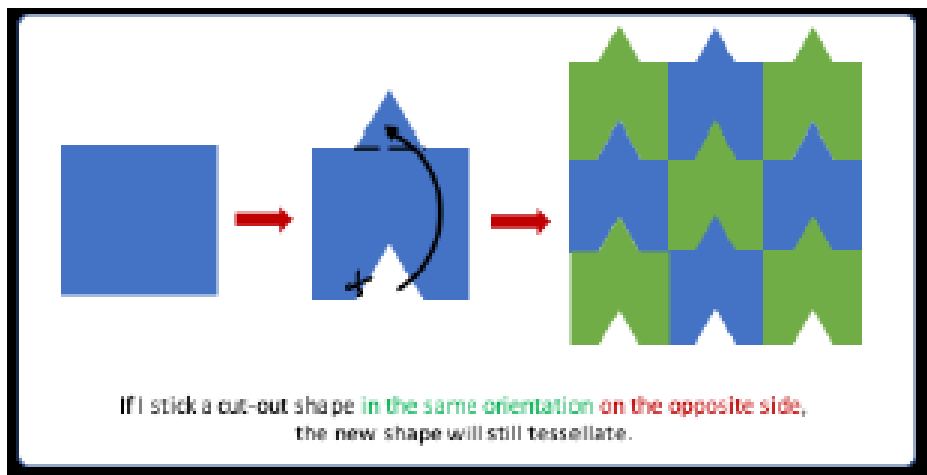
### You will need:

- 'Tessellating using regular shapes' (see resource) printed onto card so that children can draw around the shape, or lots of paper copies
- scissors, glue
- coloured pencils

### What to do:

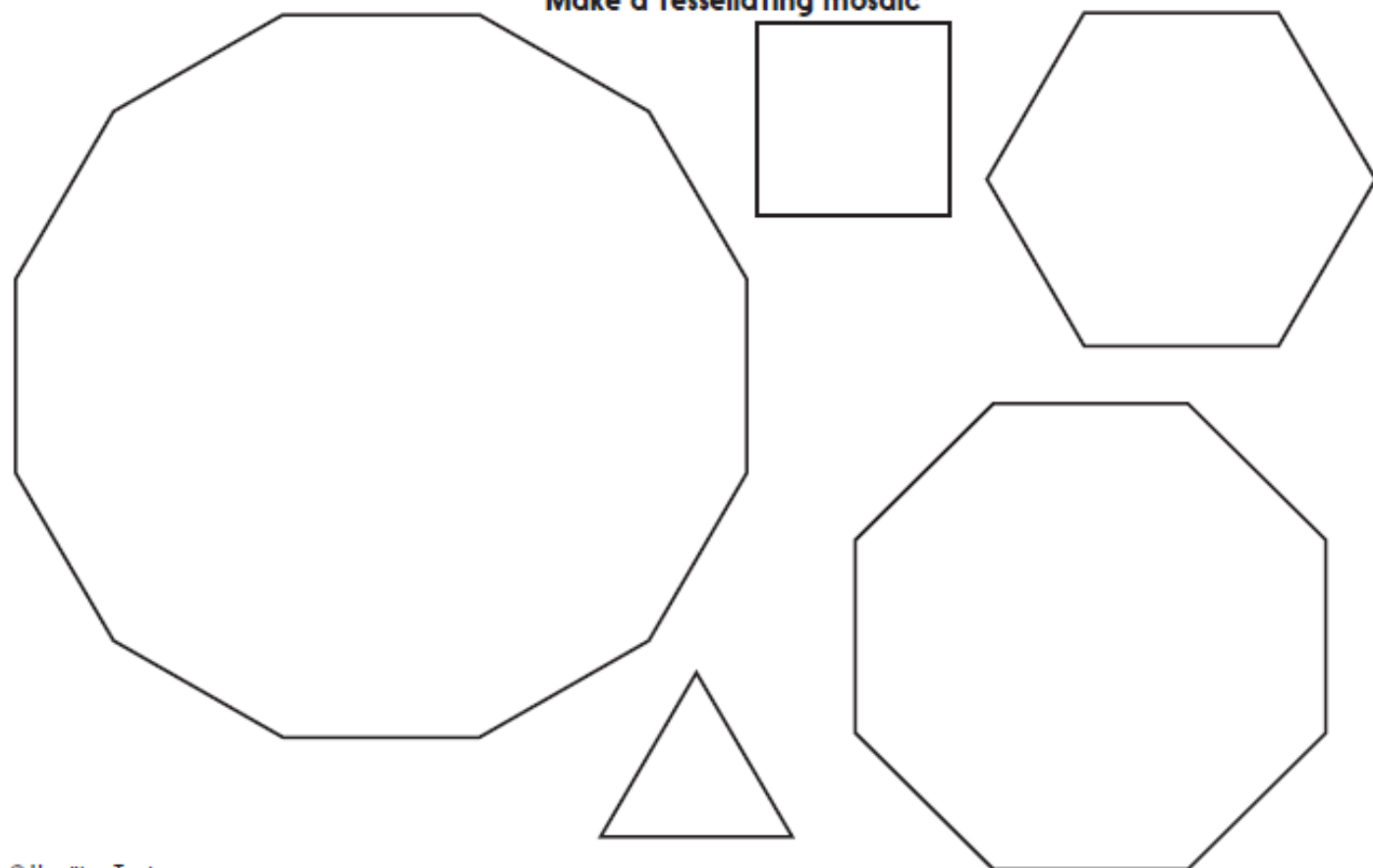
Children can choose to use these shapes in one of several ways:

- Find a way to tessellate equilateral triangles, squares and hexagons in one design together (like Pythagoras). You could use the 'interactivity' at <https://nrich.maths.org/semiregular> to explore the same activity on-screen.
- Tessellate combinations of regular shapes (see resource) to make tiling patterns, colouring each shape in a specific colour.
- Adapt a square as was started on the Learning reminder (see below) to make their own design.
- Adapt a hexagon, taking shapes off three sides, and adding them to their opposite sides to make their own tessellating design.



# Investigation Templates

**Make a tessellating mosaic**



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Explore more Hamilton Trust Learning Materials at <https://wrht.org.uk/hamilton>

## Maths Activity 5c - challenge

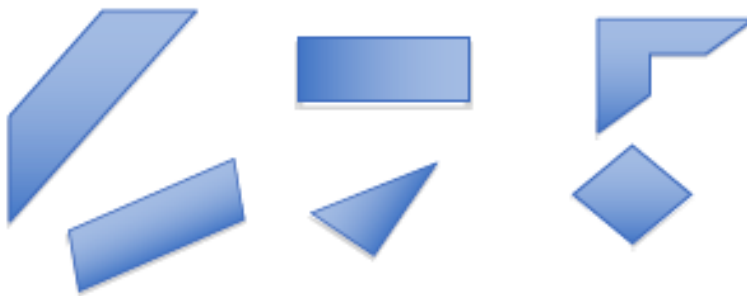
Is this a polygon?



Draw any polygon and list five of its properties.

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Which of the following shapes are quadrilaterals?

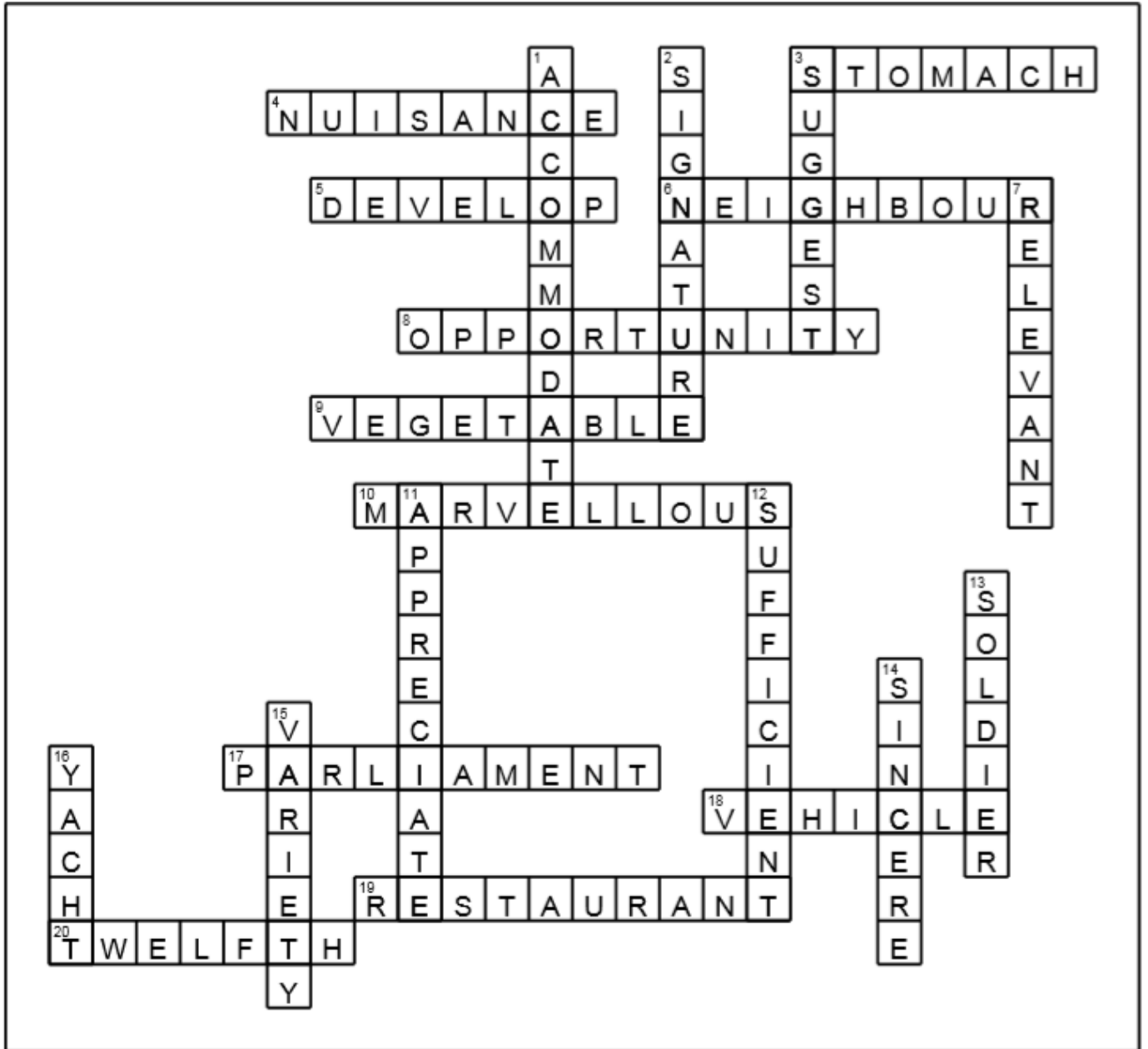


**Semi-regular tessellations** are made from two or more types of regular polygon. Each vertex in the tessellation has the same pattern of polygons around it.

Can a semi-regular tessellation be made from:

- equilateral triangles and squares?
- equilateral triangles and hexagons?
- squares and octagons?
- pentagons and equilateral triangles?

# English Activity 5 - Year 5 and 6 spellings



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**ANSWERS** Activity 5a - Ten in ten

- 1) 2525
- 2)  $7/6$  or 1 and  $1/6$
- 3) 5.714
- 4) 264
- 5)  $24/100$
- 6) 56
- 7)  $12/30$  or  $2/5$
- 8) 83
- 9) 23.129
- 10) 237744

# ANSWERS - Challenge

Is this a polygon?



No. A polygon has all straight sides, so a semi-circle is not a polygon.

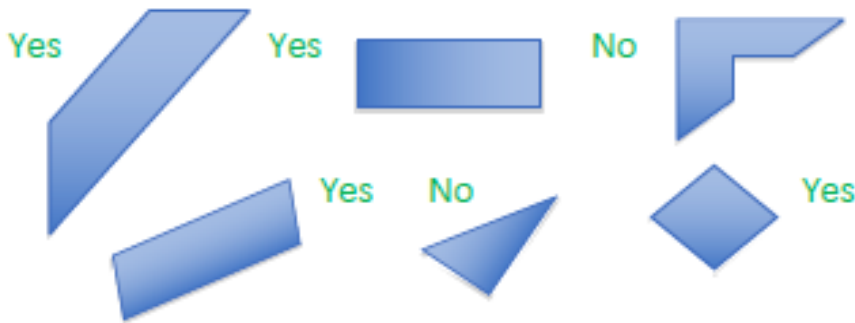
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Draw any polygon and list five of its properties.

Check - children should be referring to properties such the number of sides and angles, regularity, symmetry and using other mathematical vocabulary correctly, e.g. parallel, perpendicular, angle types.

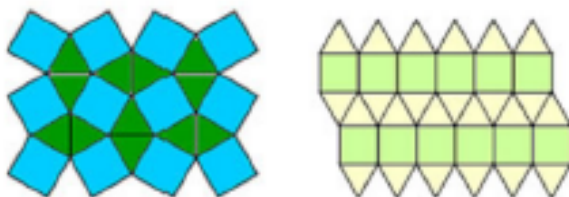
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Which of the following shapes are quadrilaterals?



**Semi-regular tessellations** are made from two or more types of regular polygon. Each vertex in the tessellation has the same pattern of polygons around it. Can a semi-regular tessellation be made from:

- equilateral triangles and squares? Yes

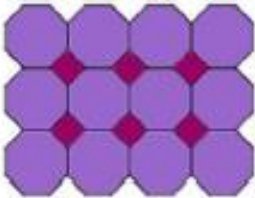


- equilateral triangles and hexagons? Yes

# Answers - Challenge continued



- squares and octagons? Yes



- pentagons and equilateral triangles? No