

Maths Home Learning Year 5 & 6 wc 6th July 2020

Year 6

(Mrs Martin's, Mrs Lewis's and Mrs Quantick's Year 6 pupils)

Please ensure that you are following the Oaks lessons carefully and pausing to complete all the mini independent tasks as you are asked to do so. If you are doing this, you may well find that the taught lesson itself takes you one session and the independent learning tasks take you a second session. This is absolutely fine and shows that you are really making the most of the support and learning given to fully master the topic being taught. Some fabulous maths home learning has been handed in via email to the office; it would be great to see even more!

This week we will continue our unit exploring area. All lessons can be found on Oaks National Academy <https://www.the.national.academy/>

For each lesson:

- Start with the Introductory Quiz
- Follow the video lesson – paying close attention to the information and demonstrations from the teacher
- Complete the independent activities when asked to do so (pausing the video to give yourself as much time as you need)
- Finish with the Exit Quiz.
- For every lesson you will need a piece of paper or an exercise book, a sharp pencil and a ruler.

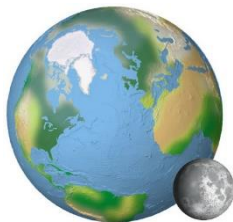
Monday 6th July & Tuesday 7th July

Over the next two sessions on decimals and measures, you will be learning to convert between standard units of mass.

The introductory quiz will check that you've understood that volume is measured in cubic units and will test your familiarity with place value when calculating using larger numbers and/or decimals.

<https://classroom.the.national.academy/lessons/convert-between-standard-units-of-mass>

The lesson video will get you thinking about weight versus mass, converting between grams and kilograms and solving problems involving grams and kilograms.

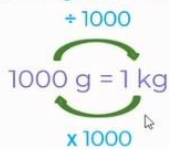


Mass v Weight
What is the same?
What is different?

What happens when I multiply by 1000?

REMEMBER:

There are 1000 grams in 1 kilogram.



...to use a bar model to help you solve problems. →



Hundreds	Tens	Units/Ones	Tenths	Hundredths	Thousandths	Ten of Thousandths
	6	1	0			
	6	1				
	0	6	1			
	0	0	6	1		

Have you spotted a pattern?



Once you have completed all the problem solving (remember, we'd like you to work systematically and thoroughly, so we expect this to take up to two days), the final test will recap on the learning in this lesson—the questions are varied, so you will need to have completed every part of this lesson.

Wednesday 8th July & Thursday 9th July

Over the next two sessions on decimals and measure, you will be looking at solving problems involving calculation of measure; you will convert between pounds and pence, and then work on multi-step problems involving calculation of measure.

Your starter quiz will test whether or not you remember how to convert units of measure—it's a really quick, multiple choice, tick box exercise in which you have to solve *a* and *b*.

<https://classroom.the-national-academy/lessons/solve-problems-involving-calculation-of-measure>

Length Mass Volume Capacity:
Which of these 4 am I measuring if I'm asked to find *amount*, *circumference*, *weight*, *distance*?

Converting money

£1 = 100p

£1.56 = ____ p

H	T	0	.	$\frac{1}{10}$	$\frac{1}{100}$
		1	.	5	6

TIP: you will need to use your previous learning on converting units of measure too.

Remember to give yourself plenty of time—we'd like you to do your problem solving systematically and thoroughly, so we expect this to take up to two days.

Friday 3rd July

You know the drill for Fridays!

- TTRockstars
- Corbett Maths 5 A Day Primary - work through the 4 tests so that you have completed 20 questions. Bronze is the easiest and Platinum the hardest (see below). If you want to complete more, go ahead!

Parents - the answers can also be found on the website.

<https://corbettmathsprimary.com/5-a-day/>

Year 5

(Miss Wood's and Mrs Quantick's Year 5 pupils)

Please ensure that you are following the Oaks lessons carefully and pausing to complete all the mini independent tasks as you are asked to do so. If you are doing this, you may well find that the taught lesson itself takes you one session and the independent learning tasks take you a second session. This is absolutely fine and shows that you are really making the most of the support and learning given to fully master the topic being taught. Some fabulous maths home learning has been handed in via email to the office; it would be great to see even more!

For each lesson:

- Start with the Introductory Quiz
- Follow the video lesson – paying close attention to the information and demonstrations from the teacher
- Complete the independent activities when asked to do so (pausing the video to give yourself as much time as you need)
- Finish with the Exit Quiz.

For every lesson you will need a piece of paper or an exercise book, a sharp pencil and a ruler.

Monday 6th July & Tuesday 7th July

Over the next 2 sessions, you will explore the diagonals of different quadrilaterals and describe the properties of diagonals of quadrilaterals.

The lesson starts with a quiz to see if you remember the properties of diagonals of quadrilaterals.

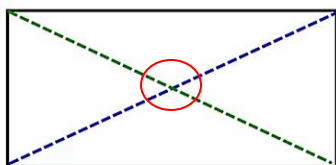
TIP: the more you look at a shape, the more you'll see. Make mental notes on what you notice: *What is the same? What is different?* Explore, explore, explore!

<https://classroom.the.national.academy/lessons/to-describe-the-properties-of-diagonals-of-quadrilaterals>

Remember:

What is a diagonal?

The diagonal of a shape is a straight line segment that joins one vertex to another.



The diagonals of a rectangle are **congruent**. They are the same length

Important Vocabulary:

Length intersection right angles parallel perpendicular

Properties of diagonals of quadrilaterals will differ according to the shape:

Are the diagonal lines the same length or different lengths?

Are they perpendicular?

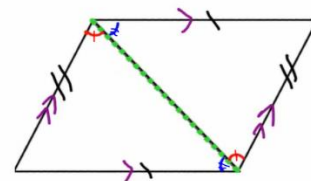
At what angle do they intersect?

BIG TIP on Congruency Notation:

(Remember: mathematicians are always looking for labelling shortcuts—sh...don't tell anyone—so they can concentrate on the fun exploration of pattern!)

Mark the lines and angles that are of equal length with an equal amount of little hash lines.

Mark sets of parallel lines with an equal amount of arrows.



Are you a Quadrilateral Whiz? Can you spot the properties of diagonals? Complete the end of lesson quiz to find out.

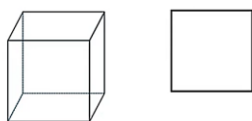
Wednesday 8th July & Thursday 9th July

Today you will learn to identify, describe and classify 3-D shapes based on the properties and consolidate previous learning, revising the names and properties of 3-D shapes.

Can you name different 3D shapes? Complete the introductory quiz: identifying, comparing and classifying 3-D shapes based on their properties.

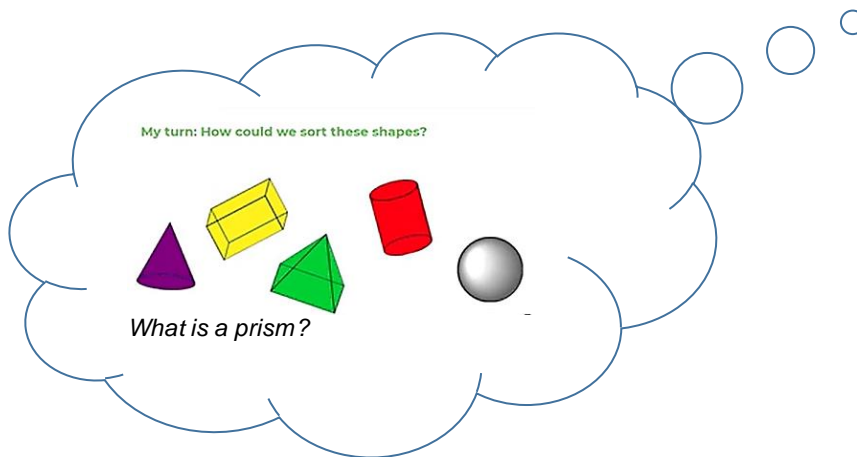
<https://classroom.the.national.academy/lessons/to-identify-describe-and-classify-3-d-shapes-based-on-the-properties>

What's the same? What's different?



Think about:

- Name of shape:
- Number of faces:
- Number of edges:
- Number of vertices:
- Shape of faces:



Once you have completed the work on properties of 3D shapes, complete the exit quiz: 'Guess the 3-D shape'.

Friday 3rd July

- If you have struggled with any of this week's lessons, go back and try them again.
- Go to Corbett Maths 5 A Day Primary and work through today's 4 tests in order. Miss Wood's set, you should be able to complete Bronze and Silver, you can then try Gold. Ms Quantick's set, you should go as far as you can, aiming to complete at least Bronze, Silver and Gold and can then try Platinum. If you want to complete the exercises from other days this week, go ahead!
Parents - the answers can also be found on the website.
<https://corbettmathsprimary.com/5-a-day/>
- TTRockstars Keep up the practise so you're ready for the next competition when it comes. Remember, you can challenge each other to a one-to-one Rock Slam whenever you like.

General Maths Support

<https://www.mymaths.co.uk>

The school username is bgpschool

The school password is circle

You then have your own unique log in to access the work set by your teacher. You should look for the subject areas that you know you find tricky and use the lessons to support you before completing the worksheets and homework. You should aim for a minimum of 80% correct in each task - redo the activity if you are scoring less than this; revisit the lesson if you need to.

<https://trockstars.com/>

You have your own log in details and should work your way through your tables until they are automatic to you. Challenge other children within your math set or class if you'd like a bit of competition. The system will respond to you as you improve giving you more and more tricky calculations to complete.

<https://corbettmathsprimary.com/5-a-day/>

This is a great site for a quick burst of varied maths each day (to really stretch your fluency). You can have a go at any level but as a guide, Mrs Q's Year 6s should be working at a Platinum level and Year 5s at a Gold level.

5-minute multiplication square

Can you complete a multiplication square in under 5-minutes? Challenge your parents or other family members to have a go too. Keep practising until you can get it all correct within the time, then see how fast you do it without losing your accuracy. There's a blank grid on the maths archive page (or you can draw your own) plus a completed one - in case mum or dad need it.

<https://www.solveemoji.com/> is a great resource for pictorial puzzles that will get you thinking algebraically whilst having fun – challenge each other to be the first to find the answer.