

Home Learning Pack

Year 4
Week Beginning 11.01.21



Home Learning Links

Oak National Academy

Oak National Academy is an online classroom and resource hub. It provides high-quality video lessons and resources to support teachers, parents and pupils.

www.thenational.academy

BBC Bitesize

With BBC Bitesize it is easy to keep learning at home. You can access regular daily lessons in English, maths and other core subjects.

https://www.bbc.co.uk/bitesize

Phonics English Hubs

Online phonics lessons for the Letters and Sounds phonics programme.

https://www.wandleenglishhub.org.uk/lettersandsounds

World Book Online

World Book online have just made their fabulous collection of over 3,000 e-books and audiobooks available for free for children to access at home. They have books suitable for all ages. Click on the following link to access them.

https://worldbook.kitaboo.com/reader/worldbook/index.html?usertoken=Mjk5MzQ6MTpJUjA5MjAxNjoyOmNsaWVudDE2OTc6MTY5NzoyMjE2Mjg4OjE6MTU4NDM4MDExMzA2Mjp1cw%3D%3D

Read Works.org

Read Works offers access to 3000+ comprehension for all age groups. Just sign up for a free account to access fantastic texts.

https://www.readworks.org/

Beanstalk

Beanstalk website is packed with lots of interactive materials for children aged 1 to 6. They are offering free access to all families during the COVID-19 pandemic.

https://beanstalk.co/

Tutortastic

An online platform with tutorials and videos for home learning.

https://www.tutortastic.co.uk/blog/homelearning

Education Quizzes

A series of short quizzes for children to complete related to the National Curriculum subjects. Just select KS1 for Reception, Year 1 & Year 2 and select KS2 for Years 3-6.

https://www.educationguizzes.com/ks1/

Top Marks

A range of activities here but especially good interactive activities for maths.

https://www.topmarks.co.uk/

Classroom Secrets

Classroom Secrets Kids is offering free access to everyone until the end of April 2020. The platform is aimed at primary aged children and covers subjects such as maths, reading, grammar and spelling. The platform is really child-friendly so that they're able to access it on their own. There are a load of games and interactive activities from phonics to SATs https://kids.classroomsecrets.co.uk/

National Geographic

National Geographic is a great platform for learning and it's totally free. There are online games, resources and competitions, too.

https://www.natgeokids.com/uk/teacher-category/primary-resources/

Reading Eggs

https://readingeggs.co.uk/

Key Question Week 2: Where's the seismograph? We've detected a sizable, seismic shock wave!

Key Text for Linked Learning: Earth-shattering Earthquakes

Linked Learning: English, Geography

This week the children will be exploring the causes and common locations of earthquakes. In geography, children will develop their understanding of wider environmental issues caused by natural disasters, this will link to their DT, in which they will begin to design their own seismographs. Continuing their English from last week, children will be writing a non-chronological report about earthquakes. Children will focus on the use of technical language, causal connectives, formal vocabulary and cohesive devices. Then, finally, children will edit and improve their work ready to create a final piece.

Maths: In maths this week, children will draw circles and study polygons then identify and explore 3D shapes.

Science: Children will begin their topic on electricity by identifying common appliances that run on electricity and creating a simple electrical circuit.

History: Children will learn about the events leading up to WWII.

Geography: See above

Computing: Children will use Garageband to explore how to sequence musical patterns.

Art: Children will explore ideas of relative size and scale.

Design Technology: Children will develop their own design criteria for a seismograph.

PDW / R.E: Children will learn about the Hindu and Sikh Festival of Vaisakhi

P.E: This week, children will be exploring multi-skills activities.

MFL: Children will recap their French phonics from Year 3 to include all 16 phonemes.

Monday English

This week, we are going to create a non-chronological report about earthquakes.

• Read the non-chronological report you have been given, how many features on our list can you find?

	The	FEATURES of a No	n-Chronological Re	port	
Tio	ck the rel	evant features as you id	lentify them in your o	example	text
FEATURE Example(s) FEATURE Example(s)					
Topic Title (The subject)			Factual Language		
Brief Introduction (who, what, where)			Present Tense		
Paragraphs			Technical Language		
Sub-headings			Third Person		
Fact Boxes or Bullet-points			Formal Tone		

Aim of the game



There are striplayers in a standard valleyball team.

Teams try to score points by hitting a ball over a net so that it bounces in the other team's half of the court or the other team connot return it.

Players who cross the centre line lose a point.

The first team to some 95 points wins a set, except in the last set where the first to 15 points wins. Teams can only win a set by two risor points.

fl volleyball match is made up of five sets.

After each point won, players move around the court in a dodewise direction. This means that all players have a dhonce to serve and play in every position.

Volleyball

Volleyball is an amazingly popular sport that is played in nearly every country on the planet. It can be played outdoors, indoors, and even on the beach!

The ball ustighs between 260-280 g (9-10 az) and is 22 an (8.5 in) in diameter.

On the court

While matches can be played on many surfaces, professional courts are made of wood or artificial materials. Lines on the court show where players should stand at the start of each point. The attack line is behind the centre line

and a team's attackers stand in front of it. The area behind the attack line is called the back zone and this is where the defenders stand.

The net height is 2.43 m (7 ft 11 in) for men and 2.24 m 7 ft 4 in) for wamen.

fittock line

The court is 18 m (60 ft) long and

9 m (29 ft) wide.

On the beach

An Olympic sport since 1996, beach volleyball is played on a smaller court of sand. There are just two players in each team and a softer, smaller ball is used.



The two players in a beach volleyball team have to work very hard to cover their half of the court.

Over the net

After a serve, teams have up to three touches to get the ball over the net. They can use any body part to get the ball over the net, as long as they do not catch or carry the ball.

16

Netball

Netball is a fast-paced sport that was developed from basketball. It sees players run, leap, pass, and catch a ball to outsmart the opposition and score points.



There one seven players

R netboll match is divided into four periods, colled quarters. Each quarter lasts 15 minutes.

One point is scored every time the ball goes down through a netted hoop on a goolpost.

When they catch a ball, the first foot a player puts down is called the landing foot. If player cornot toke prother step with this foot until the ball has been passed.

Tuesday English

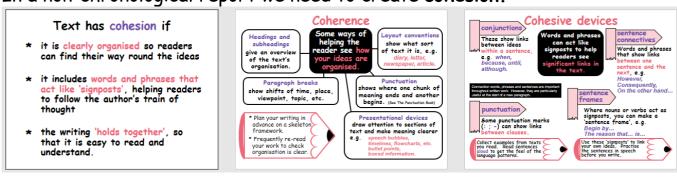
We know that a non-chronological report must include lots of facts divided into paragraphs.

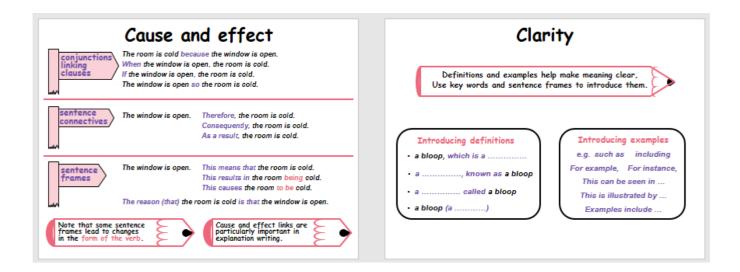
- Devise four questions you would like to answer about earthquakes in your report use the 5 Ws to help you.
- Use internet research to find the answers to your questions. Here are some useful websites in 'kid language':
- https://kids.nationalgeographic.com/explore/science/earthquake/
- > https://www.weatherwizkids.com/weather-earthquake.htm
- > Some brilliant videos from Oak National Academy:
 https://classroom.thenational.academy/units/mountains-volcanoes-and-earthquakes-e02a
- When you have found lots of facts about your four important questions, start a 'Fun Facts' section where you can tell your reader some extra interesting earthquake facts.

Keep all of your facts organised into these sections - this makes up your plan which you will need for the rest of the week!

Wednesday English

In a non-chronological report we need to create cohesion.





Tectonic plates can move which results in changes to the landscape. For example, earthquakes have formed large mountain ranges such as the Andes and Himalayas.

Your Task

Use the cohesive devices on the next page or your own to create cohesion between my pairs of sentences. You can join the two sentences as one, or add a sentence starter to the second sentence.

- 1. Natural events such as volcanic eruptions and meteor impacts can cause earthquakes. Most naturally-occurring earthquakes are triggered by movement of the earth's plates.
- 2. Almost 80% of all the planet's earthquakes occur along the rim of the Pacific Ocean. It has been named 'The Ring of Fire'.
- 3. Earthquakes can happen under the sea. A tsunami can happen.

Although	Normally,	Fortunately,
Amazingly,	Often,	Frequently,
An important thing	On average,	Furthermore,
Are you aware that?	Sometimes,	Generally,
As α result,	Strangely enough,	Have you ever wondered?
As well as that,	Surprisingly,	If
Because of this,	There are	Imagine,
Consequently,	This is	In addition,
Despite	Unfortunately,	In summary,
Despite the fact that	Unusually,	Incredibly,
Did you know that?	Usually,	Interestingly,
Even though	When	Like many
Finally,	Would you believe?	Mainly,

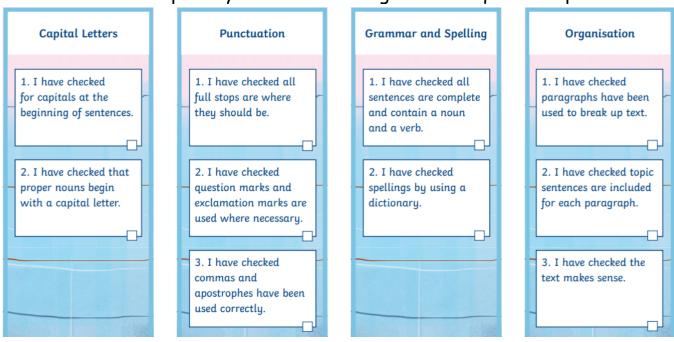
Thursday English

Today you are going to write your non-chronological report about earthquakes, using your plan and the cohesive devices we worked on yesterday. Remember the key features to include:

	The	FEATURES of a No	n-Chronological Re	port		
Tie	c k the rel	levant features as you id	lentify them in your	example	text	
FEATURE						
Topic Title (The subject)			Factual Language			
Brief Introduction (who, what, where)			Present Tense			
Paragraphs			Technical Language			
Sub-headings			Third Person			
Fact Boxes or Bullet-points			Formal Tone			

Friday English

Time to edit and improve your non-chronological 'Earthquakes' report



 When you have edited and improved your writing, set it out in neat in the style of the non-chronological reports we looked at on Monday. You can put your paragraphs in boxes, add pictures and captions, a big title and colour to make it eye-catching.

We can't wait to see your finished product!

Class Novel

We will read 'Goodnight Mr Tom' this half term. Here is a link to Chapter 1: https://thebookstheartandme.files.wordpress.com/2014/07/1goodnight-mister-tom-extract.pdf

You can also listen to the whole audiobook on YouTube https://www.youtube.com/watch?v=89-zcxZqLPE



Vocabulary

Here are two words from chapter 1 of 'Goodnight Mr Tom'.

- Imminent
- · Bewildered

Use our vocabulary grid, a dictionary and online research to help you deconstruct each word.

Etymology:	Prefix:	Root word:	Suffix:
	Word:	Орроз	site:
<u>Definition:</u>		Sy	/nonyms:
Put it in a sentence: Remem	ber ABC (()) ●		
Etymology:	Prefix:	Root word:	Suffix:
	Word:	Орроз	site:
<u>Definition:</u>		<u>Sy</u>	rnonyms:
<u>Put it in a sentence:</u> Remem	ber ABC (⊕) •		

SPELLING WORKOUTS:

plazoom

'ou' words

Tips

Does your word use 'u' or 'ou'?



u	bundle
ou	courage

Can you add another example to each row?

The 'u' sound can be made using 'u' or 'ou'. Most of the time, the letter string 'ou' does not make a 'u' sound.

There are no rules for when to use these. You just have to learn them!

Check Circle the words which are spelt correctly.

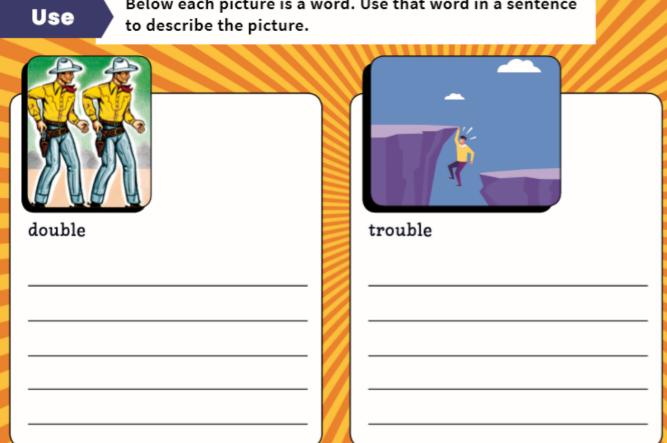
enough	nourish	doubling
enugh	nurish	dubling
armour armur	famous famus	

Place each word	from the bo	ox on the right int	to the correct sent	ence below.
-----------------	-------------	---------------------	---------------------	-------------

There were only a of benches in the park, so we had nowhere to sit.
Australia is in the half of the world.
The climb to the top of Mount Snowdon was very
My dad is very funny and has a good sense of
Now that my aunt has had another baby, I have three

cousins couple humour southern tough

Below each picture is a word. Use that word in a sentence



Change

Read each sentence and change the underlined word or phrase for a new word. Your new word should have the same meaning and contain the letter string 'ou'.

Our dog is still very <u>youthful</u> so we haven't finished training it yet.

I can always tell if my sister has come into my room and <u>handled</u> any of my things.

You need to have a lot of **bravery** to be a lion tamer.

You need to have a passport if you want to visit another *nation*.

I got into a lot of *difficulty* with my mother after I broke her favourite vase.

Apply

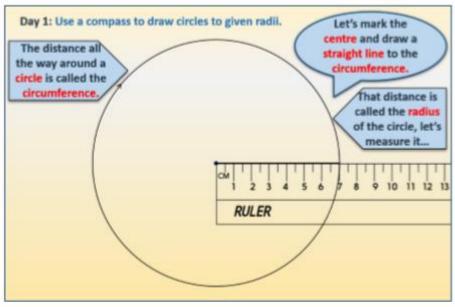
What is going to happen next? Write a short story about this image. How many of these blue words can you include in your writing?

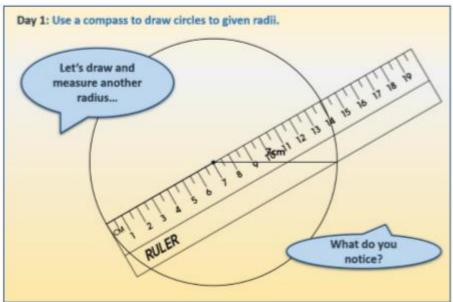


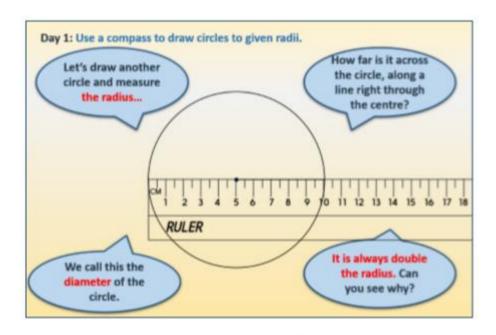
touch
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			Extra cha Can you i adver	illenge:
			 Can you i	nclude
			(adver	bs?

Monday Maths







Now try the practice sheet for Day 1. If confident try the Challenge!

Use a ruler and a compass to accurately draw these circles in your books.

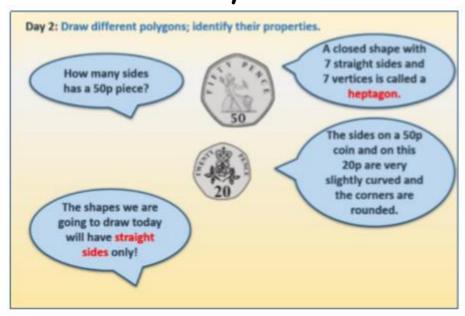
- 1. Radius = 6cm
- Diameter = 8cm
- Radius = 7cm
- Diameter = 10cm
- 5. Radius = 10cm
- Diameter = 6cm

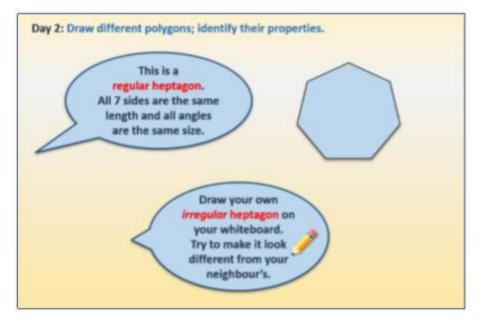
Challenge

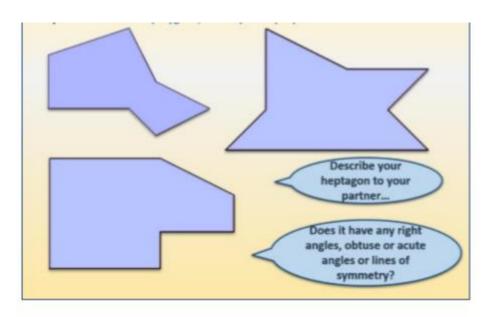
Use different colours to create this pattern:

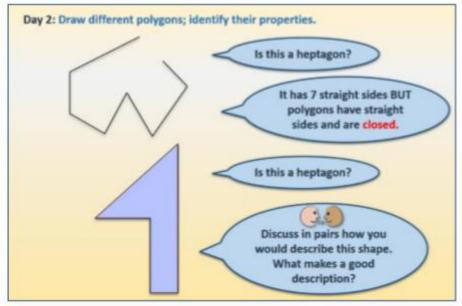
- Draw a circle with radius 3cm.
- Insert a different colour pencil in your compass. Keep the radius the same.
- · Put the point of your compass on the circumference of your first circle.
- Draw another circle.
- · Insert another colour. Keep the radius the same.
- Put the point of your compass on one of the points where your two circles cross.
- Draw another circle.
- Continue like this to draw another two circles.

Tuesday Maths









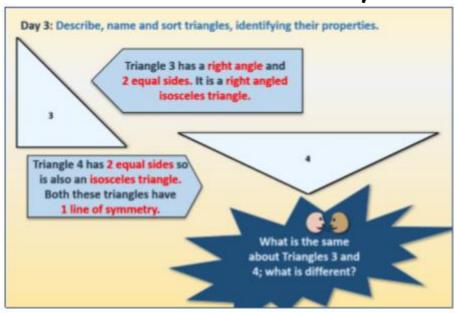
Now choose a practice sheet to suit you. You can select Day 2 Sheet 1 (easier) or Sheet 2 (harder).

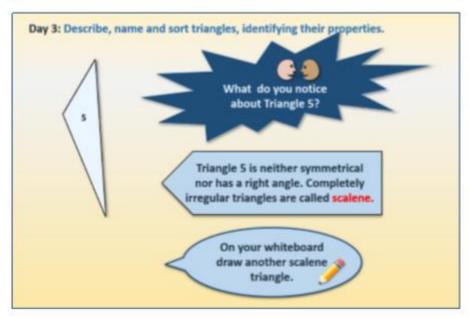
	silape pi	oper nes	
	Day 2 S	heet 1	
Draw a shape to match eac	h description. Write the nam	ne of your shape.	
(1)	2)	3)	4)
Name:	Name:	Name:	Name:
Has four sides, all four sides are the same length, and has four right angles.	Has six sides, all six sides are the same length, and has six obtuse angles.	Has five sides and one line of symmetry.	Has seven sides, has two right angles and no lines of symmetry.
5)	6)	7)	8)
Name:	Name:	Name:	Name:
Has five sides, all five sides are the same length, and has at least one line of symmetry.	Has eight vertices and no lines of symmetry.	Has seven vertices, has seven sides all the same length, has no acute angles or right angles.	Has six sides and six vertices, has three right angles.
	Day 2 SI	heet 2	
Draw a shape to match each des	cription, and write the name of	your shape.	
Name:	(2)	(3) Name:	(4) Name:
Has five sides, all five sides are	Name: Has eight vertices and has no	Has seven vertices, has seven sides	Has six sides and six vertices.
the same length, and has at least one line of symmetry.	lines of symmetry.	all the same length, and has no acute angles or right angles.	and has three right angles.
5)	6)	71	8)
Name:	Name:	Name:	Name:
Has six vertices, has two acute angles and three obtuse angles.	Has five sides, has one right angle and one line of symmetry.	Has eight sides and eight vertices, all eight sides are the same length, and has at least one line of symmetry.	Has seven vertices, and has one line of symmetry.

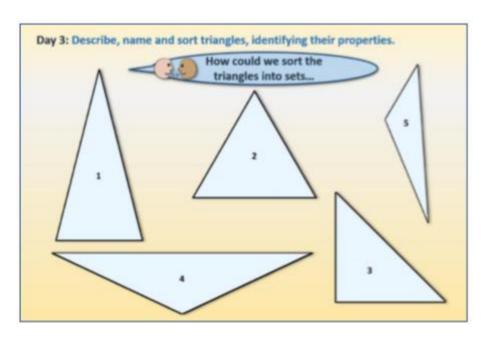
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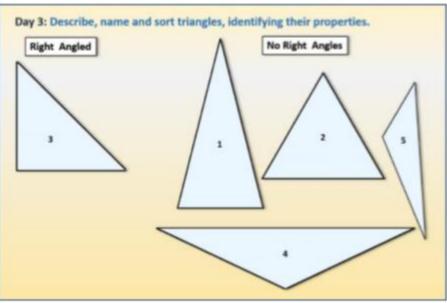
© Hamilton Trust

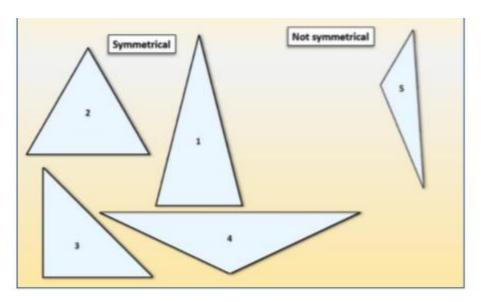
Wednesday Maths

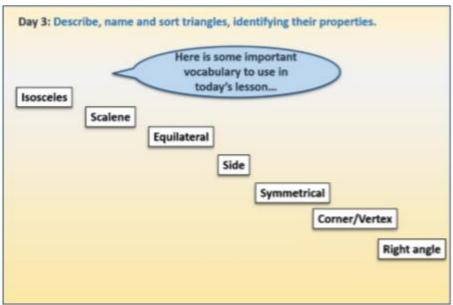








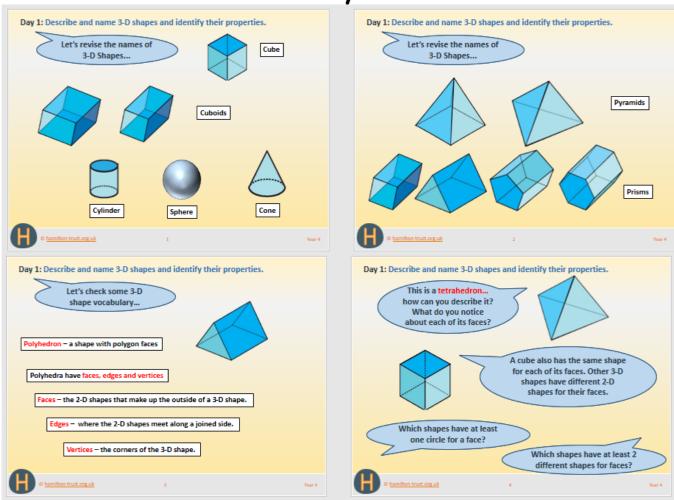


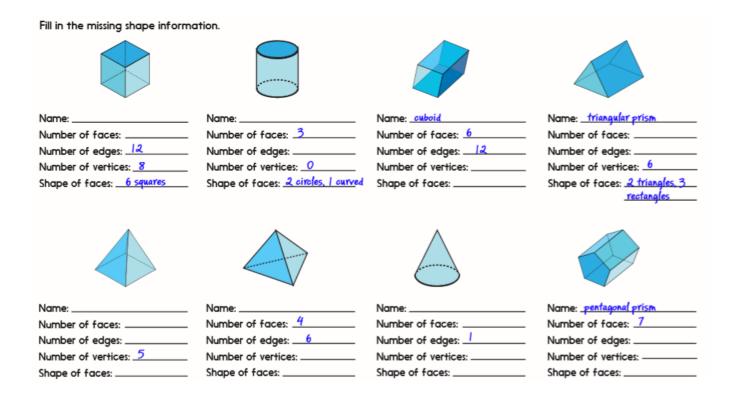


Now choose a practice sheet to suit you. You can select Day 3 Sheet 1 (easier) or Sheet 2 (harder).

	Day 3	Sheet 1	
	each triangle has a right angle. If it of triangle and write two facts a		
1.	2.	3.	4.
		•	
Name:	Name:	Name:	Name:
1	1	1	1
2	2	2	2
5.	6.	7.	8.
<i>s.</i>	0.		o.
Name:	Name:	Name:	Name:
1	1	1	1
2	2	2	2
	Day 2	Chart 2	
lles a set sauras to shook if sa	Day 3 ach triangle has a right angle. If it	Sheet 2	
Write the name of each type of	of triangle and write two facts ab	out it.	
1.	2.	3.	4.
N		N	N
Name:	Name:	Name:	Name:
1	1.	1.	1
2	2	2	2
5.	6.	7.	8.
4			
Name:	Name:	Name:	Name:
1	1	1	1
2	2	2	2

Thursday Maths





Friday Maths - Problem Solving

Shape Unit 1

Problem solving and reasoning questions

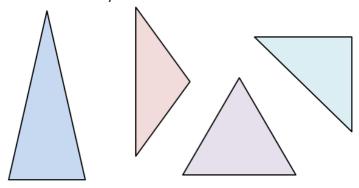
Always true, sometimes true or false?

- The circumference of a circle is the distance across the centre from one side to the other.
- The radius of a circle is half the diameter
- A circle is a special type of polygon
- A pentagon is a regular five-sided polygon
- A polygon has eight sides

Draw triangles to match each description

- i. With a right angle and the shortest side is 3cm
- ii. Two sides and two angles are equal
- iii. No equal angles; one side twice as long as one other side

Make as many *generalisations* as you can about this collection of shapes:



Shape Unit 2

Problem solving and reasoning questions

Create a net for a tetrahedron.

Fold it up to ensure that it works. Is this the only way to draw a net for a tetrahedron?

Imagine a 3 by 3 by 3 cube hanging in front of you with just the front face facing you...

The cube is made up of three 3 by 3 layers, that is 27, small cubes. You drill a hole through the four corner cubes, which are facing you, all the way through to the back.

A friend looks down on the cube, from above, and they also drill four holes through their four corner cubes all the way through to the bottom.

You and your friend then examine all the 27 small cubes. How many small cubes will then have holes drilled in them?

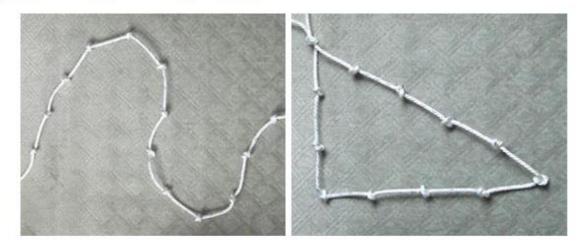
Adapted from 'Start cube drilling' at NRICH [https://nrich.maths.org/5821/Index]

Find out what a dodecahedron is. Build one using a construction kit, then write a description of it - using all your best mathematical shape language – for someone who has never seen one...

Egyptian Rope

Age 7 to 11 **

The ancient Egyptians were said to make right-angled triangles using a rope which was knotted to make 12 equal sections.

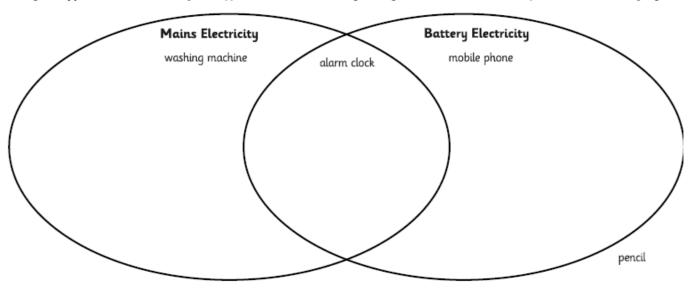


If you have a rope knotted like this, what other triangles can you make? (You must have a knot at each corner.)

What regular shapes can you make - that is, shapes with equal sides and equal angles?

Science - Electricity

Using the **Appliances Cards**, decide if each appliance uses mains electricity, battery or both or neither. One example each has been done for you.



Extension: Can you give your own examples of appliances that fit into these categories?



PDW - Dogs don't do ballet

Watch the story: https://www.youtube.com/watch?v=pHgPQfkB6Tc

Dogs don't do ballet by Anna Kemp and Sara Ogilvie

In the story, Biff dreams of being a ballerina. Even though lots of people tell him he can't be a ballerina, he never gives up his dream. Do you have a dream? What would you like to be when you grow up? Draw a picture and write a sentence below about what you want to be.

Dogs don't do ballet by Anna Kemp and Sara Ogilvie

Dogs are not the only ones excluded from ballet in this story. What do you notice about the ballet class Biff tries to join? Miss Polly addresses her class as "girls," but is ballet only for girls? Why do you think there are no boys in this class?

There are lots of ways children (or dogs) can feel like outsiders because of expectations or stereotypes. What is a stereotype? What is often the stereotype about ballet?

Write a new version of this story to challenge a stereotype or assumption. For example, "Boys don't do ______," or "Girls don't do ______." Or you could use an animal like Anna Kemp did (the author of this book) "Snakes don't do cricket" or "Horses don't do football."

Look at this picture, what do you see?

What do you think Disney did in response?

Disney apologised to the family and changed the rules. They said the experience was now open to all children aged 3 to 12, not just girls. The wording on the Disneyland Paris website which used to read, "Grant every little girls wishes with a Princes experience." The website now reads, "Grant every child's wishes with a Princess experience."

Here is the original article from The Guardian in 2017 https://www.theguardian.com/film/2017/aug/30/disneyland-apologises-forbanning-boyfromprincess-experience#img-1

- Think about the picture and story above and answer these questions:
- 1. Why did Noah's Mum feel so angry?
- 2. Why did Disney apologise? Why didn't Disney just say, "It's only for girls, you can't join in."



The picture shows Noah. Noah is a "Frozen" super-fan and loves to dress up as Elsa. Noah's mum tried to book the "princess for a day" experience at Disney for her son, but she was told he would not be allowed to take part because he was a boy. He was offered a cuddly toy instead.

Noah's mum sent a letter to Disney asking, "What terrible, awful fate may befall her son if he wears a dress?" She said, "If a little girl wants to be a superhero, she can be. If she wants to be a Jedi, she can be. She can be whatever she wants."

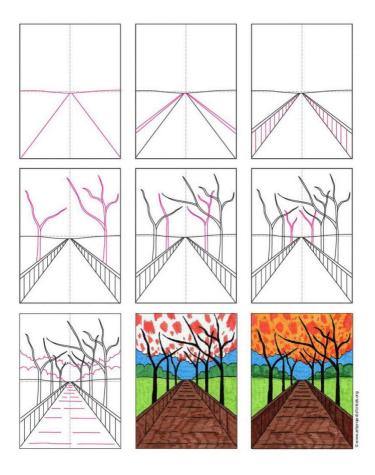
- 3. What does this show about Disney and about the world today?
- 4. What is the name of the law in the UK today that says that you should not face discrimination because of your gender? Clue: It was made in 2010. Who else does the law protect?
- 5. Why is this story about No Outsiders?

Art - Drawing with Perspective

Perspective means when things look smaller the further away they are. It makes our artwork look more realistic.

Follow this step by step lesson to have a go at creating a drawing or painting using perspective.

https://www.slideshare.net/cisenberg2/one-point-perspective-43917903



Challenge: Why not try drawing the view out of your bedroom window using perspective? Make the houses and objects closer to you larger and look carefully at how the road thins out at it moves away from you.

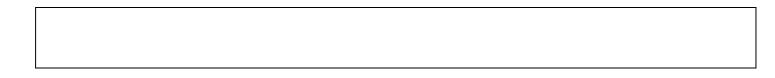
DT - Designing a Seismograph

You have learnt all about seismographs and how they work. Soon you will be

having a go at making one from materials you can find in your own home! First you need to make a plan.

Here is an example:

I am designing a	
It will be used by or for	
It will need to	
What materials I will use and why	What equipment I will use and why
My design will look like this	
First I will need to	
Next I will need to	
After that I will need to	



RE - Vaisakhi

Access the link below to learn all about the Sikh festival of Vaisakhi https://www.bbc.co.uk/bitesize/topics/zsjpyrd/articles/z6qqy9q

Active Task!

Learn to dance some Bhangra steps by following along with this video. Bhangra is traditional folk-dancing from the Punjab region associated with the harvest.

Watch a dance, then learn the individual steps and try it yourselves! https://www.youtube.com/watch?v=YYX8e8l55zs

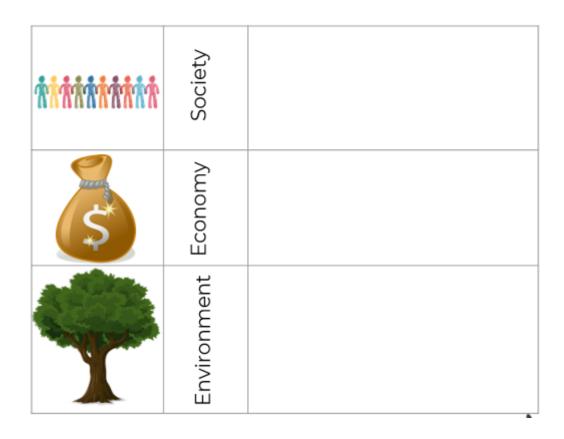
Geography - What happens when there is an earthquake?

Complete this online lesson from the Oak Academy all about an earthquake which took place in Japan in 2011.

 $\frac{https://classroom.thenational.academy/lessons/what-happens-when-anearthquake-occurs-6xhp2t}{$

You do NOT need to complete the intro quiz.

Please complete the tasks set during the lesson and fill in the grid to show what the main impacts of the earthquake were.



History

This term, we will start learning about World War II, but how much do you know about British history already?

Can you use what you know about the order of events to match the periods of history with the dates and make your own timeline?

HINT: Remember we learnt recently that Henry VII took the throne in 1485!



ВС	1714	793	1837	1485
450	1066	1603	1902+	43AD