

Year 6 Home Learning – Week 5

There are lots of activities planned here for you to do at home. This is a suggested timetable so please don't worry if you don't do it all – you just need to do what you can. If you can do a bit of English and maths every day, that would be fantastic as it will help you to be ready for when you come back to school.

There are also a range of topic and science resources that you may wish to do in the afternoons.

You do not need to print anything off (though you can if you want to) and should be able to do most of it with a pen/pencil and paper. If you've an A4 pad of paper or a notebook at home, that would be great.

If you cannot access the online resources, there are plenty of other activities here that you can do. Remember, there are lots of other things you can do that you don't need the internet for, like reading a variety of books/newspapers/magazines, practising your times tables, practising the year 5/6/ spellings (available in your reading record), working through the SATS revision guides if you have those, writing a diary entry for every day, artwork etc.

If you do some work that you're really proud of, you can send it us at year6@lps.hereford.sch.uk for us to look at!

DAY	ENGLISH (See more detailed plan below)	READING More activities below!	SPAG	MATHS
MONDAY	<p>LO: to identify the features of a biography</p> <p>https://classroom.thenational.academy/lessons/to-identify-the-features-of-a-biography-70t66c</p>	<p>Read through 'Alien Invasion' below. Read it really carefully and look up any vocabulary you're not sure on.</p> <p>You just need to read the text today – you will answer the questions tomorrow.</p>	<p>Complete SPAG mat 1 today.</p>	<p>As well as these lessons, use some time in this session to practise on 'TT Rockstars'.</p> <p>Watch the video, then have a go at answering the questions!</p> <p>You don't need to print them out – you can just copy and answer them on paper.</p> <p>If you love maths as much as we do, you may also want to explore the 'my mini maths' and 'nrich' websites to really challenge yourself!</p> <p>Lesson 1: the first quadrant https://whiterosemaths.com/homelearning/year-6/week-13-geometry-position-direction/</p>
TUESDAY	<p>LO: to investigate French and Greek etymology</p> <p>https://classroom.thenational.academy/lessons/to-investigate-french-and-greek-etymology-c9jkcr</p>	<p>Have a go at the questions that go with 'Alien Invasion'.</p>	<p>Choose 5 year 5/6 spellings (see spellings below). Try writing them in rainbow colours. Write each one 5 times in the air! Try using all 5 in a short paragraph</p>	<p>Lesson 2: four quadrants https://whiterosemaths.com/homelearning/year-6/week-13-geometry-position-direction/</p>
WEDNESDAY	<p>LO: to explore the functions of a colon</p> <p>https://classroom.thenational.academy/lessons/to-explore-the-functions-of-a-colon-c5hkjd</p>	<p>Today read the poem 'The Watcher'. Think about how the poem makes you feel. Tomorrow you will answer some questions about the poem.</p>	<p>Complete SPAG mat 2.</p>	<p>Lesson 3: translations https://whiterosemaths.com/homelearning/year-6/week-13-geometry-position-direction/</p>
THURSDAY	<p>LO: to retrieve information from a non-fiction text</p> <p>https://classroom.thenational.academy/lessons/to-retrieve-information-from-a-non-fiction-text-part-1-6cw32d</p>	<p>Answer the questions about the poem 'The Watcher' that you read yesterday.</p>	<p>Choose 5 year 5/6 spellings. Write them out but make sure all the vowels (a,e,i,o,u) are in a different colour.</p>	<p>Lesson 4: Reflections https://whiterosemaths.com/homelearning/year-6/week-13-geometry-position-direction/</p>

FRIDAY	<p>LO: to develop a rich understanding of words associated with trying hard</p> <p>https://classroom.thenational.academy/lessons/to-develop-a-rich-understanding-of-words-associated-with-trying-hard-cgw62r</p>	<p>Read the non-fiction piece of writing 'Morning Star' and answer the questions about it.</p>	<p>Complete SPAG mat 3 today.</p>	<p>Lesson 5:</p> <p>Complete the position and direction whiterose mini test below</p>
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Year 6

Position and Direction

Name _____

- 1 Write down the coordinates of point A.

(,)



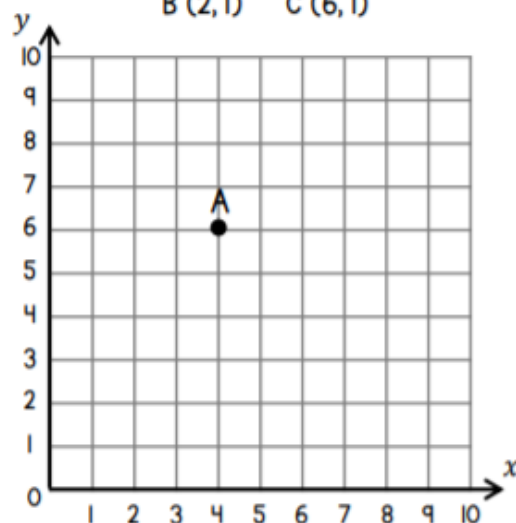
1 mark



2 marks

Plot the points B and C on the grid.

B (2, 1) C (6, 1)



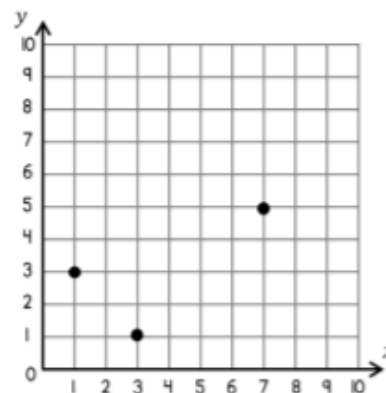
Join up the 3 points to make a triangle.

What type of triangle have you drawn?



1 mark

- 2 Teddy is drawing a rectangle on a grid.



Plot the final vertex of the rectangle.

What are the coordinates of the final vertex?

(,)

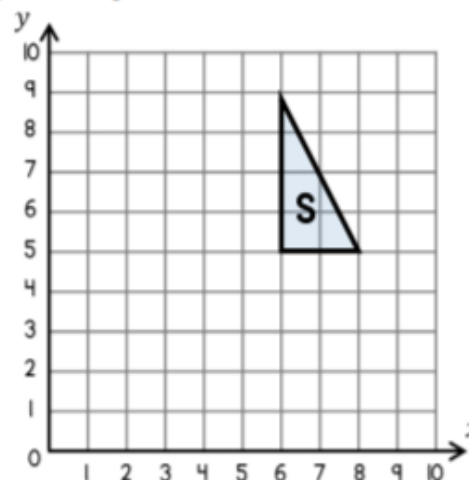


1 mark



1 mark

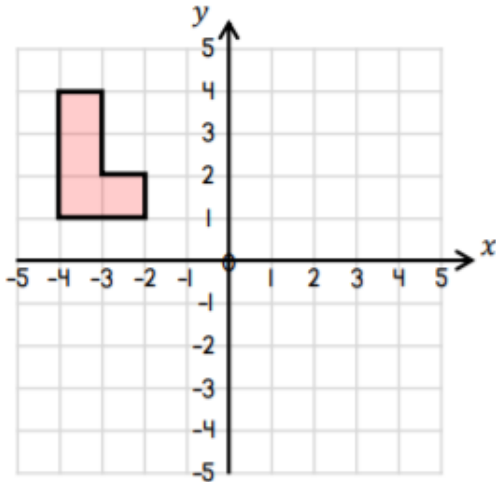
- 3 Translate triangle S, 2 left and 3 down. Label your triangle T.



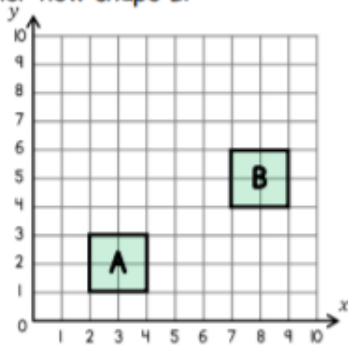
2 marks

Position and direction mini test (part 2)

- 4 Reflect the shape in the y axis.



- 5 Eva translates shape A, 3 right and 1 up. She labels her new shape B.



Explain why Eva is wrong.

What are the coordinates of the correctly translated shape?

(,) (,) (,) (,)



2 marks

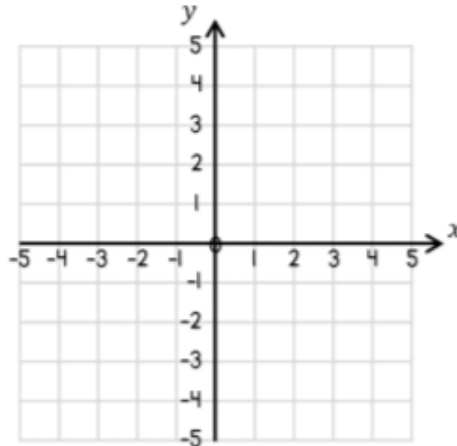


1 mark



2 marks

- 6 On the grid, draw the shape with vertices at $(-2, -3)$, $(-4, -3)$ and $(-4, -1)$



Reflect the shape in the x axis, label your shape P.

Translate shape P, 6 right and 2 down. Label your new shape Q.

- 7 A square is drawn on a grid. Two of its vertices are at $(3,3)$ and $(7,7)$. What is the perimeter of the square?

_____ units

Circle how confident you feel with position & direction.

1 2 3 4 5
Not Very
confident confident



1 mark



2 marks



2 marks



2 marks

Year 6 Maths Activity Mat

①

Section 1

$$\frac{3}{5} + \frac{3}{7} = \boxed{}$$

$$2\frac{5}{8} - 1\frac{2}{5} = \boxed{}$$

Section 2

$$53 \times 8 = \boxed{}$$

$$53 \times 80 = \boxed{}$$

Section 3

Jim, Harry, Jack and Des go on holiday together and share the cost of the car hire and the villa equally.

The car hire costs £145.46 and the villa is £1279.30.

How much does each person pay?

Section 4

Solve these calculations.

$$20 = 4h + 4 \quad h = \boxed{}$$

What does **h** equal?

$$14 = 6j - 4 \quad j = \boxed{}$$

What does **j** equal?

Section 5

Solve the following calculation:

$$6\,726\,000 - 800\,000 = \boxed{}$$

Section 6

Laura buys:

3kg of potatoes at 78p per kg;

2.5kg of carrots at £1.46 per kg.

She paid with a £20 note. How much change will she get?

Section 7

Liz has a jar of sweets. In one month, she ate $\frac{5}{8}$ of the sweets.

There are 12 left.

How many sweets were in the jar at the beginning?

Section 8

Two friends buy some chocolate bars.

Each bar costs £1.18.

There is a special offer on: buy one, get 2nd half price.

They buy 5 bars and split the cost equally. How much do they each pay?



Years 5 and 6

Statutory Spellings



Aa

accommodate
accompany
according
achieve
aggressive
amateur
ancient
apparent
appreciate
attached
available
average
awkward

Bb

bargain
bruise

Cc

category
cemetery
committee
communicate
community
competition
conscience
conscious
controversy
convenience
correspond
criticise
curiosity

Dd

definite
desperate
determined
develop
dictionary
disastrous

Ee

embarrass
environment
equipment
equipped
especially
exaggerate
excellent
existence
explanation

Ff

familiar
foreign
forty
frequently

Gg

government
guarantee

Hh

harass
hindrance

Ii

identity
immediate
immediately
individual
interfere
interrupt

Ll

language
leisure
lightning

Mm

marvellous
mischievous
muscle

Nn

necessary
neighbour
nuisance

Oo

occupy
occur
opportunity

Pp

parliament
persuade
physical
prejudice
privilege
profession
programme
pronunciation

Qq

queue

Rr

recognise
recommend
relevant
restaurant
rhyme
rhythm

Ss

sacrifice
secretary
shoulder
signature
sincere
sincerely
soldier
stomach
sufficient
suggest
symbol
system

Tt

temperature
thorough
twelfth

Vv

variety
vegetable
vehicle

Yy

yacht

Reading (Monday)

Alien Invasion

Voss slowly opened her eyes, the suit's alarm bleeping away in her ears. At first, she thought she may be blind; everything was black. Then a bright circle drifted past the visor of her helmet.

"Commander Dryden!" a human voice called through her ear-piece as the bright shape spun away and blackness returned. "We're under attack! We haven't much time!"

Her head was throbbing and she felt dizzy as the alarm continued to bleep. Voss tried to rub her eyes, but instead her gloved hand hit the outside of her space helmet. She tried to remember where she was. The bright circle drifted past once again, but this time her eyes were able to focus on it. It was a planet; a large, blue planet.

The blue planet whizzed past again, and then something else; something that looked like a spaceship. No – two spaceships! One of them was on fire, parts of it drifting into space.

"Commander!" the human voice cried.

"Warning," a different, computer-sounding voice said, "Oxygen levels critical. Thirty seconds remaining."

Voss suddenly realised that she was the one spinning, not the planet. "Stabilise," she ordered, and everything came to a stop. She twisted round. The blue planet was Earth and the spaceship on fire was the Vanguard Explorer. She remembered how it had come under attack, the aliens forcing their way on board. She remembered the explosion that left her unconscious and spinning into space. And she remembered what needed to be done. "Forward thrusters," she coughed. The suit pushed her towards the outer hull of the Vanguard where an amber button was flashing beside a small control panel. Voss keyed in the 10-digit password, and pressed the self-destruct button. "Sorry," she whispered.

"They're here!" the human voice screamed in her ear.

"Oxygen levels depleted," the computer voice said.

There is no sound in space, but if there was, the sound of the Vanguard exploding into a million pieces – and the alien ship along with it – would have been heard all the way to Earth.

Reading questions (Tuesday)



1. Why did Voss think she was blind at first?



2. What was the bright circle that kept drifting past?



3. 'And she remembered what needed to be done.'
What do you think Voss was thinking to herself at this point in the story?



4. "Oxygen levels depleted," ...
Why has the author used such technical language for this direct speech?

The Watcher

I beam at you and you smile at me
and I give you warmth and light.
I watch you through your skies and clouds;
but you turn and sleep at night.

Four and a half billion years I've lived;
five billion yet to come,
110 times the size of Earth
I'm way too hot for some.

The ancient Romans called me Sol,
The Egyptians called me Ra,
The Greeks knew me as Helios,
you know me as your star.

Although 8 minutes is all it takes
for light to reach your home;
93 million miles away
in space is where I roam.

My solar winds and solar flares
light up the Northern Lights;
the polar pinks and greens and blues -
the world's most wondrous sights.

One day I'll have no fuel to burn;
the hydrogen all done,
the light will go, your planet, too,
but for now, I'm still your sun.



Reading questions (Thursday)



1. Draw four lines to link these numbers to their fact.

8

how many times bigger the sun is compared to Earth

110

age of the sun

93 million

how many minutes it takes the sun's light to reach Earth

4 and a half billion

distance in miles between the Earth and sun



2. Why do you think 'The Watcher' was chosen for the poem's title?



3. 'but you turn and sleep at night.' Explain what the poem means by this:



4. Read the final verse. In your own words, sum up what the poem is saying here:

MORNING STAR

GIANT HURRICANE FOUND ON SATURN

Scientists at NASA say a giant hurricane on Saturn, 1500 miles wide, has been photographed by their roving spacecraft, Cassini.

Cassini, which was launched way back in 2004, has been snapping all sorts of amazing images during its 77 000 mph journey through our solar system but its latest pictures have sent the space-science community into an intergalactic spin!

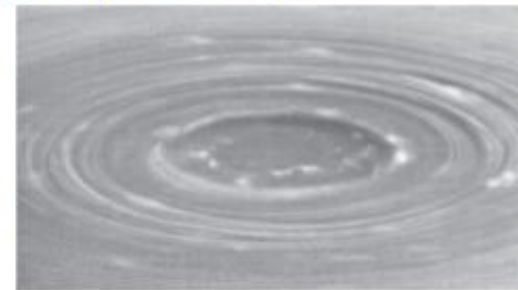


On April 26, 2017, the spacecraft dived down between Saturn and its innermost rings, and what it photographed astounded scientists back on Earth. "We did a double take when we saw this... because it looks so much like a hurricane on Earth," Andrew Ingersoll (a NASA team member) explained.

The hurricane, which is about as wide as the continent of Europe, has probably been churning for years, sometimes at speeds of up to 330 mph!

Scientists have long known about Saturn's violent weather patterns. In 1980, NASA's space

probe, Voyager, measured winds at 1,100 mph – which is about the same speed as an RAF Tornado fighter plane! Plus, keen-eyed astronomers have witnessed storms the size of Earth, using powerful telescopes.



But it is Cassini's ability to get close and photograph the hurricane that has delighted scientists the world over.

Reading (Friday)- Questions



1. How fast did Cassini travel on its way through the solar system?



2. How wide is the hurricane that Cassini photographed? Tick two.

1500 miles ☐

the width of Earth ☐

77,000 miles ☐

the width of the continent of Europe ☐



3. '...its latest pictures have sent the space-science community into an intergalactic spin!'

a) Think about what types of people might make up the space-science community. Write down two of them:

b) According to the report, the pictures of the giant hurricane on Saturn have sent them into an 'intergalactic spin'. What do you think it means by this?



4. It took NASA years to build Cassini, then 13 years for it to reach Saturn. Millions of dollars have been spent on it. Imagine you are the Head Scientist at NASA in charge of the Cassini mission. You have been asked to say some words on TV about the photos of the giant hurricane and how you feel about them:

Spring Term 1

1

Is this sentence active or passive?

Underline the object of the sentence.

Before bedtime, Joshua always brushes his teeth.

Look at these sentences.

Underline the root word that could have an il-, ir- or im- prefix added. Write each new prefix word.

a) The trains from our local station are very regular.

b) The new arrangements were extremely practical for everyone to follow.

Look at the sentence below and add two modal verbs.



We _____ travel north from Summerdown Castle and eventually we _____ arrive at the Moosejaw Mountains.

Can you think of more formal synonyms to replace these past tense verbs? (Use a thesaurus if you need to!)

cried _____

bought _____

Mr Whoops has accidentally jumbled up two antonyms of 'polite'. Can you help him to unjumble them?



rdeu csnieonidtera

Can you add appropriate punctuation around the parenthesis in this sentence?

The Beatles the world-famous Liverpooldian band first began recording songs in 1962.



Spring Term 1

2

Place a semicolon between the two independent clauses in this sentence.

The Lancaster Bomber was a popular aircraft used in the Second World War it became the RAF's main bomber during the battle.



a

Put the commas in the correct places within these sentences:

Koalas which are native to Australia usually live in a eucalyptus forest habitat.

The fun-packed brownie camping trip involved climbing archery raft-building and fishing.

b

~~divided~~ dense varied frequently

Replace the appropriate words in the text with synonyms from the list above. The first one is done for you.

The Earth's crust is ~~split~~ up into tectonic plates of different shapes and sizes. The plates are made of solid rock. Earthquakes and volcanic eruptions often occur on plate boundaries.

split - divided

_____ - _____
 _____ - _____
 _____ - _____

c

Are the underlined words a noun phrase, a prepositional phrase or a subordinate clause?

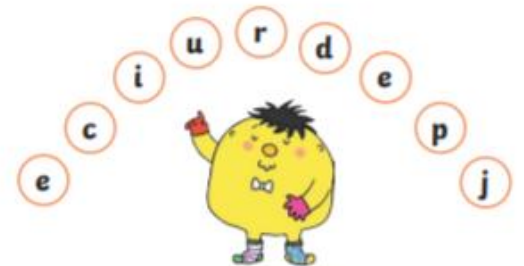
If there is heavy snowfall overnight, we can build a snowman in the morning.

The children wrapped up warm outside in the cold.

e

Mr Whoops has been juggling with the letters from one of his Year 6 spelling words. Can you spot what it is?

p_____



f

Grandmother Of Eight Makes
Hole In One!

Why is this newspaper headline ambiguous?

d

Spring Term 1

3

Write a sentence about the picture that contains a modal verb and a fronted adverbial. Underline them.

a



Replace the underlined words with a synonym.

With a flick of his magical wand, Wizardo turned his enemy into an ugly monster. In triumph, he began to chortle heartily.

b



Rewrite these sentences in the present perfect tense.

Peter entered the competition.

c

This Easter, Ben and Isaak are taking part in a chocolate egg hunt.



Rewrite the sentence with a semicolon between the two independent clauses

d

William Shakespeare is still one of the best-selling authors in the world and his books are translated into many languages.

Mr Whoops has made three clumsy spelling mistakes in his diary entry. Can you underline them and correct them? Use a dictionary if you need to.

e

Dear Diary,

After standing in a cue for over an hour, I finally gained admission into the new ansient Egypt exhibition at the museum. I had a phenomenal day; I would definitely reccommend it.

Read the sentence below. Add in a word or words and the appropriate punctuation to turn it into a question.

f

That's the new boy from Class 9, _____

Science lesson:

What are the different animal kingdoms?

In today's lesson we are going to learn how living organisms are classified. We will learn about the 5 kingdoms and then we will focus on the animal kingdom. For this lesson you will need a pencil, a piece of paper and a ruler.

<https://classroom.thenational.academy/lessons/what-are-the-different-animal-kingdoms-6cvp6r>

Science slides:

What is Classification?

How many different species of living things are there on Earth?



Scientists believe that there could be as many as 10 million different species on Earth! It would be very hard to study the lives and behaviours of all these living things without grouping them together somehow.

Scientists sort and group living things according to their similarities and differences. This is called classification. Scientists who classify living things are called taxonomists.

Classification Conundrum



Zoo Animals List



Imagine that a new zoo is going to open in your local area. You have been asked to sort and group the animals that will live in the zoo, so that similar species can be housed in enclosures near one another.

You will act as a taxonomist, so it is up to you to decide how to classify the animals and give reasons for your classification.

Look at the animals on your Zoo Animals List and use the Zoo Classification Activity Sheet to sort and group the animals.

Science worksheet:



Zoo Animals List

These animals are going to live in a new zoo. You need to classify the animals so that similar species can be housed near to each other. Use the Zoo Classification Activity Sheet to classify the animals.



lion



chameleon



tarantula



lobster



hissing cockroach



giraffe



poison dart frog



macaw



chimpanzee



octopus



qiant snail



komodo dragon



Galapagos penguin



spectacled bear



meerkat



emu

PE lesson:

Follow the link below for your PE lesson:

<https://pehubportal.co.uk/session-1/>

Complete the KS2 exercises. You will find videos on the website showing you the difference exercises.
Play some of your favourite music whilst you complete your PE lesson!

Session 1 - Alternating Exercises (Part A)

KS2 – Time Limit 2 – 3 minutes

Complete 10 sit-ups
Complete 15 bear crawl steps

Alternate through these two exercises for 2 – 3 minutes

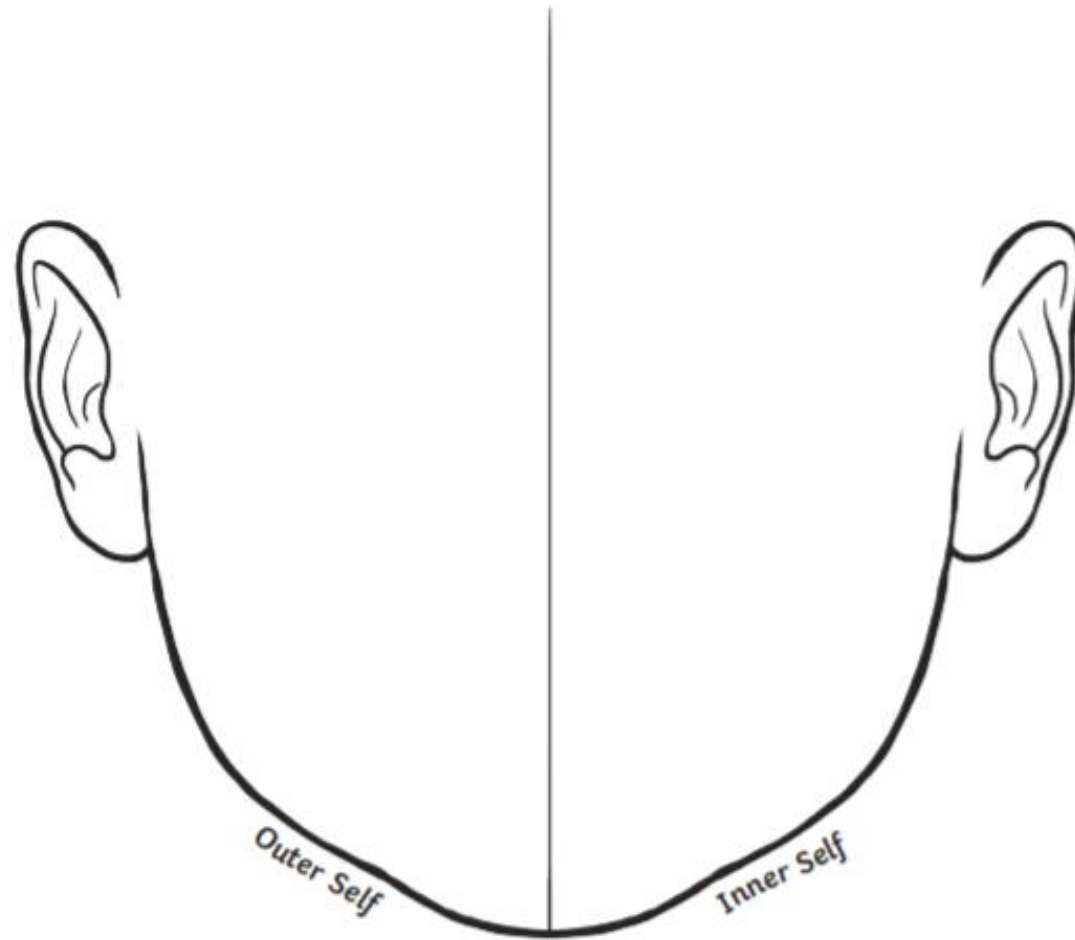
Rest 90 seconds and then complete Part B

Alternating Exercises - Part B

KS2 – Time Limit 2 – 3 minutes

Complete 10 jumps
Complete 15-second bridge hold

Alternate through these two exercises for 2 – 3 minutes



Draw and color what you look like on the Outer Self side of the face.
Draw and color your hobbies, emotions, thoughts, and feelings on the
Inner Self side of the face. See the sample picture for ideas.

Sample picture



This a 'fairy cakes' recipe. You must make sure you work with an adult when baking and cooking in the kitchen. Keep safe!



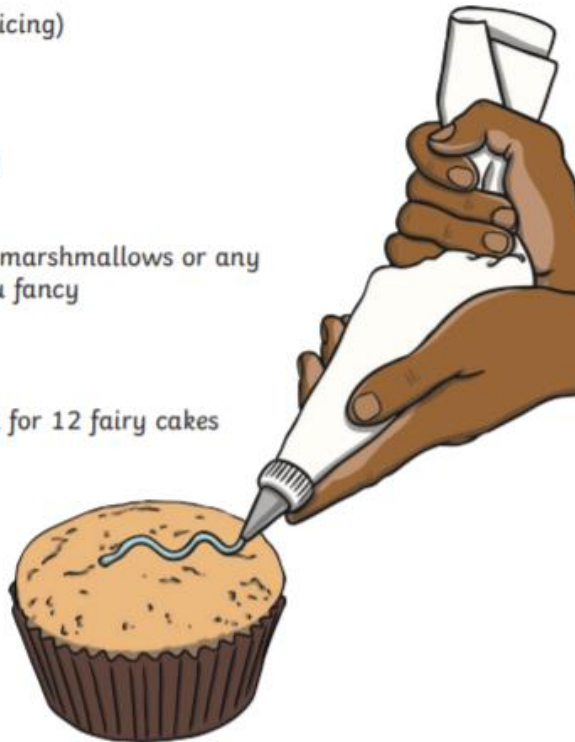
Fairy Cakes

Ingredients

100g caster sugar
100g softened butter (for cakes)
200g softened butter (for icing)
100g self-raising flour
2 eggs
1 teaspoon vanilla extract
200g icing sugar
Food colouring, sprinkles, marshmallows or any other decorations that you fancy

Equipment

Oven
Fairy cake tray with room for 12 fairy cakes
12 fairy cake cases
Large mixing bowl
Small mixing bowl
Wooden spoon
Fork
Icing bag



Method

1. Turn the oven on at 180°C or gas mark 4.
2. Put a paper fairy cake case in each hole of your fairy cake tray.
3. Put the sugar and 100g of butter in the large mixing bowl and mix it together. The butter needs to be soft so that you can really work it together with the sugar. It should be fluffy and creamy once combined.
4. Sift the flour into the bowl. This gets rid of any horrid lumps and make the flour nice and airy so you have light fairy cakes. Fold the flour into the sugar and butter.
5. Break the eggs into the small mixing bowl. Fish out any bits of shell that accidentally drop in and whisk the eggs together with a fork.
6. Add the vanilla extract and the eggs to the butter, sugar and flour mixture and mix together.
7. Divide the cake mixture out evenly between the 12 fairy cake cases.
8. Put the tray in the oven for 20 minutes. The fairy cakes should be golden once cooked.
9. Whilst the fairy cakes are cooking, wash and dry the large mixing bowl. Add the remaining 200g of softened butter to the bowl. Sift the icing sugar into the butter and mix together. The icing should be smooth and creamy. You can add a drop of food colour at this point if you want coloured icing.
10. Put the icing into the bag, ready to ice the cakes.
11. Once the fairy cakes have cooked, let them cool completely in the tray. When the cakes are cool, pipe the icing onto each fairy cake. Letting the cakes cool fully stops the icing from melting!
12. Decorate the cakes with your choice of sweets and sprinkles!
13. Serve your yummy fairy cakes and enjoy!



