Arbury
Primary School

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Home Learning Ideas, June 2020
Year 5

Name: _____

In this pack are lots of different ideas for things you can work on at home. Have a go and see how you get on!

Remember that if you have internet access, there are lots of things on eSchools for you to do. If you log into your eSchools page, you can send messages, or look at the projects and groups. You can also play games on Education City, practise your times tables facts on TT Rockstars and take quizzes on Accelerated Reader.

Planet Earth

We all live on Earth...why? Well, Earth is the only planet in our solar system that has all the things we need to survive: 21% oxygen in the air to breathe, water to drink and all at just the right temperature warmed by the Sun. Its name comes from the Old English word 'ertha' and the Anglo-Saxon word 'erda' which means ground or soil.

The Blue Planet

Earth, the third planet from the Sun after Mercury and Venus, is referred to as 'The Blue Planet' because of how it looks from space. This is due to the fact that over $\frac{2}{3}$ of the Earth's surface is covered in water.

Did you know?

- Age: approximately 4.54 billion years
- Diameter: 13,000 km
- Distance to Sun: 150,000,000 km
- Surface Temperature: 15°C
- Highest point: Mount Everest 8.8 km
- Lowest point: Challenger Deep 10.9 km below sea level

I'm Spinning Around

The Earth spins on its axis once every 24 hours – that's what gives us day and night as we spin to face the Sun and then away from it again. You wouldn't notice but the Earth's spin is actually slowing down by 17 milliseconds per hundred years. Eventually this will lengthen our days but it will take around 140 million years before our day will have increased from 24 to 25 hours. I wonder if children 140 million years from now will have an extra hour at school.

Whilst it is spinning, the Earth is also orbiting The Sun, which takes 365 $\frac{1}{4}$ days to do one full circuit. This gives us the length of our years. Our seasons are also dependent on the orbit of the Earth as our planet is tilted at an angle. This means that around one side of the Sun we are tilted towards it – giving us warmer temperatures and longer days...our summer. However, around the other side of the Sun we are tilted away from it giving us less light and cooler temperatures – this is our winter. All in all, it's a pretty amazing planet and I, for one, am glad to call it home.

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Questions

1. What percentage of Oxygen is in the air we breathe?

2. What is the highest thing on Earth?

3. How long does it take the Earth to spin once on its axis?

4. Will the Earth always spin at this speed? If not, how will it change?

5. How many planets are between us and the Sun and can you name them?

6. Why do we experience summer around one side of the Sun?

7. Why is Earth also called 'The Blue Planet'?

8. What 3 things make it possible for us to survive on Earth?

9. Why do we need to add an extra day to our year every 4 years?

10. Which fact or piece of information has amazed you the most and why?

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The Sun

The Sun is a star and is at the centre of our solar system. That is why it is called a solar system. The word solar means 'relating to the Sun'. The planets in our solar system stay together because the Sun is so big its gravity keeps us all locked in orbit around it.

Making Energy:

The Sun provides almost all the energy, light and heat needed on Earth and it mainly uses hydrogen and helium for this. Energy is made at its core in the centre of the Sun's sphere. Around the core is the radiative zone which carries the energy to the next layer – the convection zone. It takes about 170,000 years for the energy to move from the core to the convection zone! The photosphere is at the Sun's surface and the energy gets to there from the convection zone in large bubbles. From here, the energy escapes (through the chromosphere and corona) and some of it comes to Earth. It takes about 8 minutes for heat to reach us from the Sun.

Did you know?

Surface temperature: 5505°C

Distance to Earth: 149.6 million km

Radius: 696,342 km

Circumference: 4,366,813 km (2,713,406 miles)

Mass: 1,989,000,000,000,000,000,000,000,000,000kg

(About 1.3 million Earths could fit inside the Sun)

Lifespan:

The Sun is actually a yellow dwarf star and was created about 4.6 billion years ago. The Sun will eventually run out of energy and fade, but don't worry...this won't be for another 4.5 to 5.5 billion years yet! Before the Sun eventually fades, in an unimaginable time from now, it will get bigger and turn into what is called a 'red giant'. In 1.1 billion years from now, the Sun will be 10% brighter than it is today. This will make Earth a bit like a greenhouse – hot and moist. 3.5 billion years from now, it will be even brighter than that: at 40% more than it is today. This will be so hot that the oceans will boil and the ice will melt. It's safe to say that there will be no life on Earth by then, but with space travel already making new discoveries and exploring other planets, where do you think humans will be by then?

Questions

1. What gases is the Sun mainly made from?

2. How long does it take energy to reach Earth from the Sun?

3. How far away is the Sun from Earth?

4. What type of star is the Sun now?

5. List the different layers of the Sun from the centre to the outside.

6. What keeps our solar system of planets orbiting the Sun?

7. Solar means 'relating to the Sun'. Think of another example where we use the word 'solar'.

Questions

8. Will the Sun last forever? If not, why not?

9. In the final paragraph it says that Earth will become 'a bit like a greenhouse'. A greenhouse is warm and moist inside because of the glass that lets heat and light in and keeps it in. Our Earth is not surrounded by glass, so what will let the heat and light in and keep it in?

10. Look at the final line - where do you think humans will be by then?

The Moon

Do you ever look at the Moon at night and see the Moon shining down and lighting up the night-time town? Do you wonder what it would be like to visit the Moon or wonder why it shines so bright? Read on to find out all about our planet's moon.

Moon and Sun

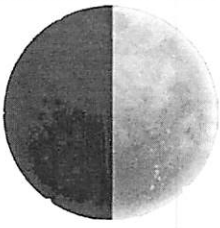
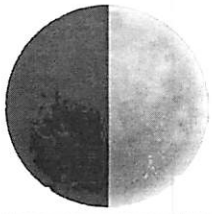
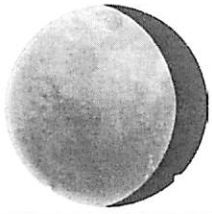
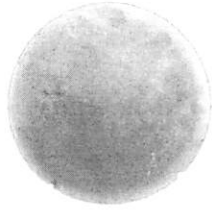
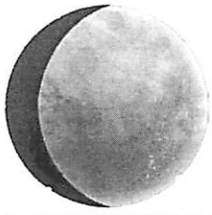
The Moon shines very brightly, but it is only reflecting the light of the Sun because it cannot make its own light. When the Sun comes back up for our daytime, it appears as if the Moon has disappeared, but it doesn't, it's just harder to see because the sky is so bright. Sometimes, if you look carefully, you can see the Moon in the sky during the daytime.

Orbit

The Moon is the Earth's only natural satellite (that means something that orbits a larger object). It takes the Moon about 28 days to go around the Earth once; we call this a lunar month. During this time, we only ever see the same side of the Moon as it rotates slowly whilst it moves around us. The side we see is called the 'near side'.

During its orbit, the angle between the Earth, Moon and Sun changes so the part of the Moon that is lit up cannot always be seen from Earth. This is what gives us the phases of the moon, when it is waxing (growing bigger) and waning (getting smaller) with shapes including crescent and gibbous.

The eight phases of the Moon are:

			
First Quarter	**Waxing Crescent**	**New Moon**	**Waning Crescent**
			
Third Quarter	**Waning Gibbous**	**Full Moon**	**Waxing Gibbous**

The Moon

Moon Facts

- Average temperature in the day: 107°C
- Average temperature at night: -153°C
- Distance from Earth: 238 857 miles (384 403km)
- Diameter (distance from one side to the other): 2160 miles (3476km)
- Length of Day: 708 hours

What Is It Like on The Moon?

The Moon is extremely hot during the day but very cold at night. The surface of the Moon features a vast number of craters that have occurred after collisions with comets and asteroids. The Moon has many mountains, the tallest of which is Mons Huygens. It is 4700 metres tall; half the height of Mount Everest.

The Moon does not have an atmosphere like Earth does and therefore it is not possible to breathe on the moon without a special suit and tanks containing oxygen. The moon is also a very dry place and was thought to be completely without water. However, about a decade ago, traces of water were discovered. Some people now believe that humans may one day be able to live on the Moon.

Did You Know...?
'Selenophobia' is the fear of the Moon.

Only 12 people have ever walked on the Moon. The first person to do this was Neil Armstrong on 20th July 1969. When he first walked on the Moon, he famously said, 'That's one small step for man, one giant leap for mankind'. There were two other men on the mission: Edwin 'Buzz' Aldrin and Michael Collins. Together, they formed the crew of the Apollo 11 mission. It took them just over three days to get there from Earth, blasting off in a Saturn V rocket from the Kennedy Space Centre, USA on July 16th 1969.

You may have seen a film of people bouncing, rather than walking on the Moon. It isn't quite the same as walking on the Earth because the Moon's gravity is weaker than the Earth's gravitational force so people take longer to return to the surface when they go up in the air.

Questions

1. What word can be used to complete the sentence below:

The Moon cannot make its own... Tick **one**

- ○ gravity
- ○ water
- ○ light
- ○ heat

2. How far away is the Moon from the Earth in km? Tick **one**.

- ○ 3476km
- ○ 384 403km
- ○ 2160km
- ○ 238 857km

3. Explain what a lunar month is.

_____

_____

_____

4. What word is used to describe when the Moon appears to be getting smaller?

_____

5. What is selenophobia?

_____

6. Why can humans not live on the Moon (at the moment)? Use evidence from the text to support your answer.

_____

_____

_____

7. Who was the first man to walk on the Moon?

_____

8. Explain in your own words what you think Neil Armstrong meant when he said, 'That's one small step for man, one giant leap for mankind.'

9. Would you like to visit the Moon? Explain your answer fully using evidence from the text to support your answer.

Story-Writing Prompt 1

Out of This World

Use this picture to write a fantasy story.

Show Picture

Your story must include a portal between a real and an imagined place.

Next

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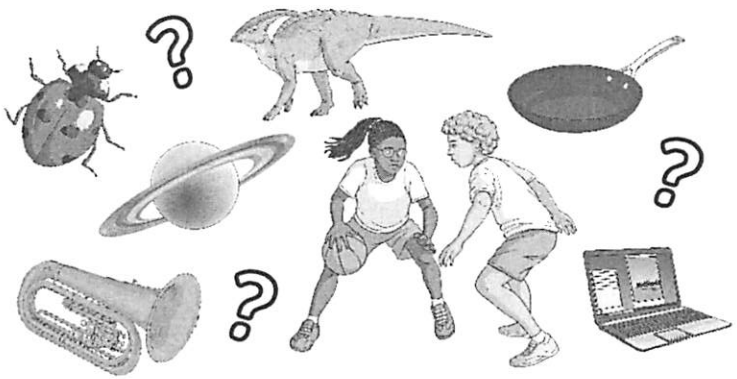
Story-Writing Prompt 2

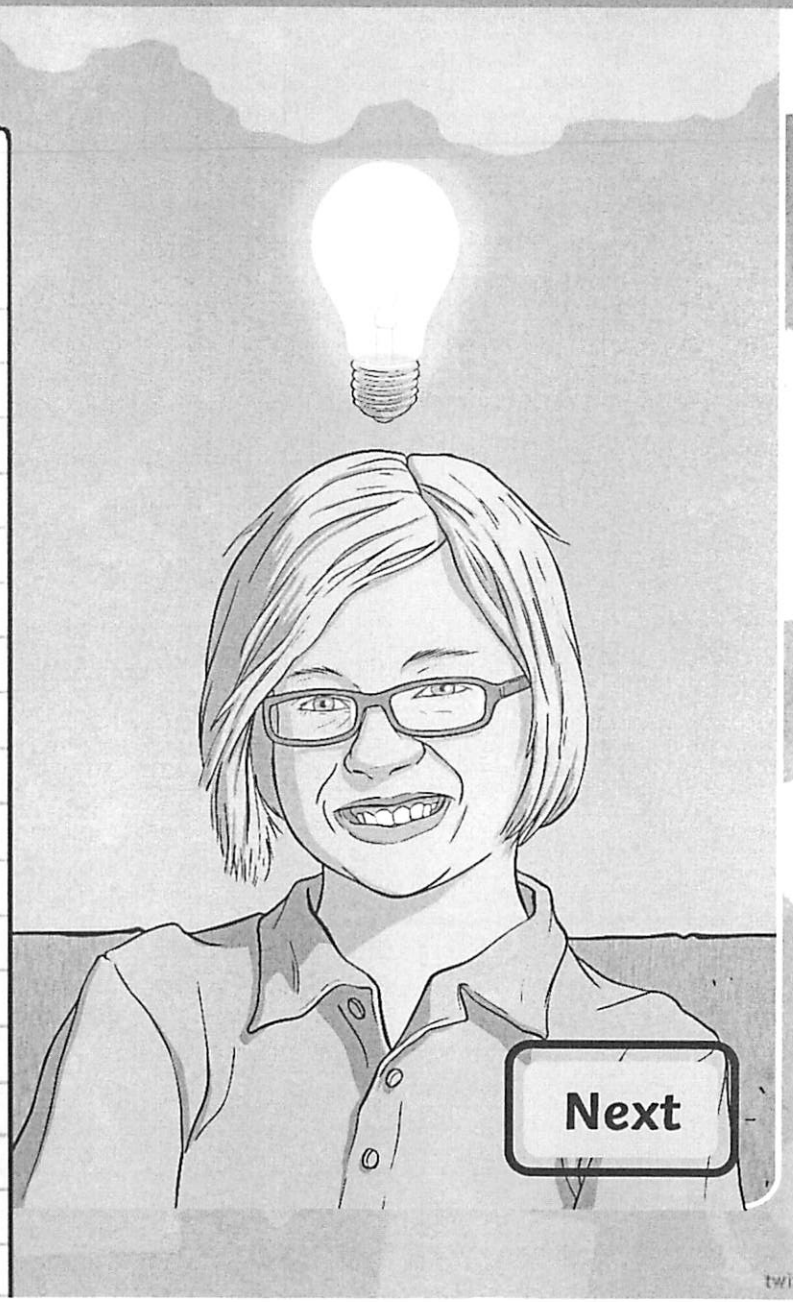
Write a Report

Choose a topic that you know a lot about.



Write a report which explains key information to someone who knows nothing about the subject.

Remember to use organisational devices and technical language.



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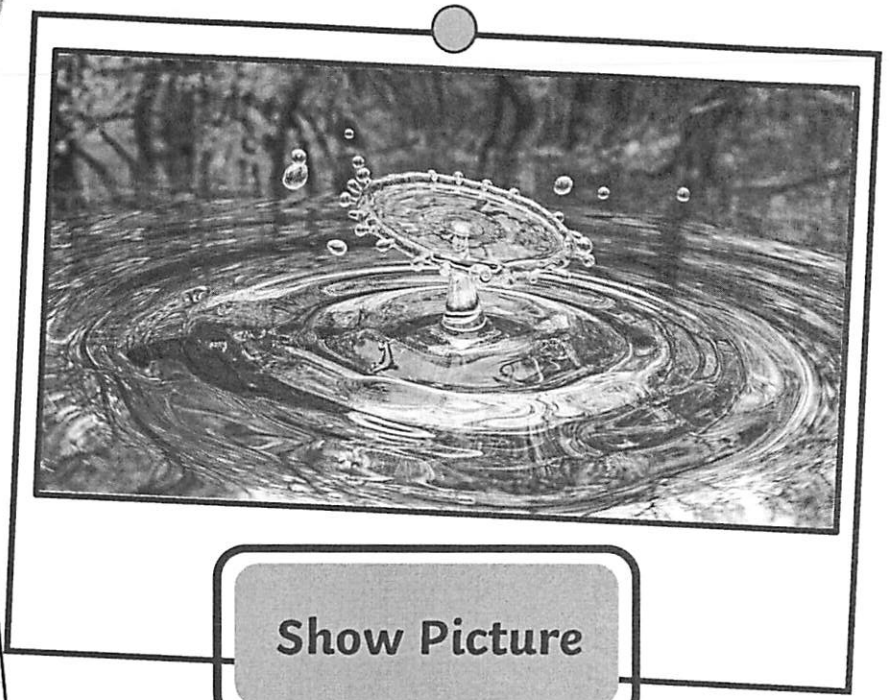
Story-Writing Prompt 3

Collision

Use this picture to write a haiku.



Show Picture

Your poem should have three lines and should follow the syllable pattern 5, 7, 5.

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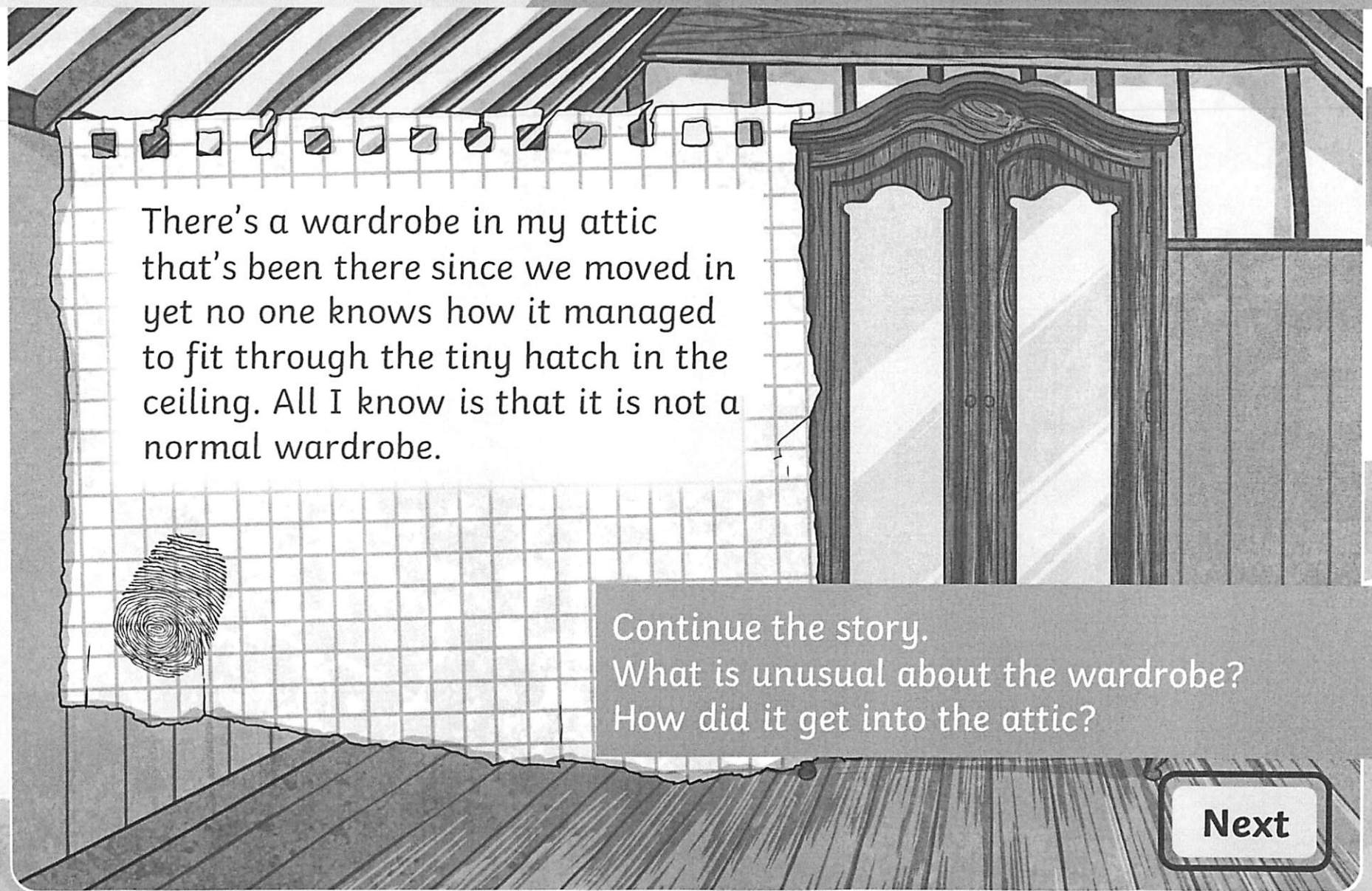
Story-Writing Prompt 4

Warped Wardrobe



There's a wardrobe in my attic that's been there since we moved in yet no one knows how it managed to fit through the tiny hatch in the ceiling. All I know is that it is not a normal wardrobe.

Continue the story.
What is unusual about the wardrobe?
How did it get into the attic?

Next

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Year 5 Summer Term 1 **SPaG Mat**

a

Rewrite this sentence with an added fronted adverbial. Then, circle the relative pronoun in this sentence?

Kayden had a bed that looked like a treehouse.

_____

_____

b

Can you think of a word that ends in the sound /shuhl/ that matches this definition?

not real _____

top secret _____

c

Explain why this possessive apostrophe sentence is incorrect.

The familys' holiday was now booked.

_____

_____

_____

d

Tick to show whether the underlined word is being used as an adverb or an adjective.

Sentence	Adverb	Adjective
The woman looked angry.		
The lovely teacher praised her class.		

e

Choose the correct form of the verb 'to have' to fit into these sentences.

Today, Darcie and Oscar _____ been learning about Greek mythology.

Last month, Max _____ the best time at scout cub camp.

Florence's guinea pig _____ the softest fur.

f

Mr Whoops has been juggling with the letters from one of his Y5 spelling words- can you spot what it is?

(s) (i) (t) (d) (a) (s)
(r) (s) (u) (o)

d _____

Year 5 Summer Term 1 **SPaG Mat**

a

Add a possessive pronoun:

The girl, who was very interested in science, had been given a white lab coat - it was _____ to keep.

b

Rewrite this sentence with the adverbial at the beginning.

Mandeep watered her bean plant very carefully.

_____

_____

c

A prefix word in each of these sentences is incorrect. Rewrite the prefix words correctly.

The dishonest man had made an imlegal transaction at the bank.

_____

The autobiography had been written in a very imformal tone.

_____

d

If this is the answer, what was the question?

_____

Usually, at the weekends.

_____

Spaghetti bolognaise.

e

Mr Whoops has made **three** clumsy spelling mistakes in his sentences. Can you underline them and correct them?

I have a seryous problem with my new washing mashine. I may need an electritian to fix it.

_____

_____

_____

f

Circle the error in this sentence:

The driver was lost and weren't sure which direction to go.

How would you correct it?

_____

Statutory Spelling Word Activity Mat: accommodate

1

Use a dictionary to define the word **accommodate.**

_____

_____

_____

Add the word **accommodate** to these sentences.

Can you _____ us tomorrow?

This hotel can only _____ 100 guests.

How many pupils can the room _____?

We can _____ a group in this room.

Write the syllables of the word **accommodate** inside the hands.

Which word classes does the word **accommodate** belong to?

noun	verb	adjective
adverb	conjunction	pronoun
preposition	determiner	

Which letter from the word **accommodate** is missing below?

o m e a d

c a m t c ☐

Trace the word **accommodate**.

accommodate

Complete the word **accommodate**.

accom_____	**_____odate**	**_____o_____**	**ac____da____**

Write a synonym and an antonym for the word **accommodate**.

Synonym: _____

Antonym: _____

Write your own question containing the word **accommodate** as a verb.

_____

_____

Edit and improve these words so that they correctly spell the word **accommodate**.

acomodate acomidate acommerdate

Statutory Spelling Word Activity Mat: accompany

2

Use a dictionary to define the word **accompany.**

_____

_____

_____

Add the word **accompany** to these sentences.

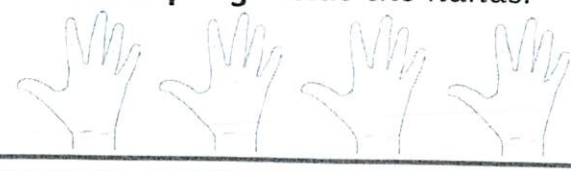
Will you _____ me?

Mr Jones will _____ you on the trip.

I will _____ you home.

Suki, please _____ Fred to see the headteacher.

Write the syllables of the word **accompany** inside the hands.



Which word classes does the word **accompany** belong to?

noun	verb	adjective
adverb	conjunction	pronoun
preposition	determiner	

Which letter from the word **accompany** is missing below?

o m p a n

c a m c ☐

Trace the word **accompany**.

_____

accompany

_____

_____

Complete the word **accompany**.

accom_____	**_____pany**	**_____o_____**	**ac_____pa___**

Write your own statement containing the word **accompany** as a verb.

_____

_____

Write a synonym and an antonym for the word **accompany**.

Synonym: _____

Antonym: _____

Edit and improve these words so that they correctly spell the word **accompany**.

accompny acompany accumperny

Statutory Spelling Word Activity Mat: according

3

Use a dictionary to define the word **according.**

_____

_____

_____

Add the word **according** to these sentences.

_____ to Will, Hamza won't come.

I think everything will go _____ to plan.

_____ to the weather report, it will rain today.

I did it _____ to your instructions.

Write the syllables of the word **according** inside the hands.

Which word classes does the word **according** belong to?

noun	verb	adjective
adverb	conjunction	pronoun
preposition	determiner	

Which letter from the word **according** is missing below?

o r d a

c n g c

☐

Trace the word **according**.

_____

_____

_____

_____

Complete the word **according**.

accor_____	_____ing	_____o_____	ac_____di___

Write your own statement containing the word **according** as an adverb.

_____

_____

Write a synonym and an antonym for the word **according**.

Synonym: _____

Antonym: _____

Edit and improve these words so that they correctly spell the word **according**.

acordding accoardding accrordang

Statutory Spelling Word Activity Mat: achieve

4

Use a dictionary to define the word **achieve.**

_____

_____

_____

Add the word **achieve** to these sentences.

I will _____ my goals.

You will _____ a lot if you work hard.

Do you think Rob will _____ success?

No one can _____ anything without effort.

Write the syllables of the word **achieve** inside the hands.

Which word classes does the word **achieve** belong to?

noun	verb	adjective
adverb	conjunction	pronoun
preposition	determiner	

Which letter from the word **achieve** is missing below?

h i v

c e a

☐

Trace the word **achieve.**

_____ _____

_____

_____

Complete the word **achieve.**

ach_____	**_____eve**	**_____h_____**	**ac_____v_____**

Write your own statement containing the word **achieve** as a verb.

_____

_____

Write a synonym and an antonym for the word **achieve.**

Synonym: _____

Antonym: _____

Edit and improve these words so that they correctly spell the word **achieve.**

acchieve acheve acheeve

Statutory Spelling Word Activity Mat: aggressive

5

Use a dictionary to define the word **aggressive.**

_____

_____

_____

Add the word **aggressive** to these sentences.

Please don't be _____ with me.

Briony can be an _____ person.

Is he ever _____?

Do not use an _____ attitude towards me.

Write the syllables of the word **aggressive** inside the hands.

Which word classes does the word **aggressive** belong to?

noun	verb	adjective
adverb	conjunction	pronoun
preposition	determiner	

Which letter from the word **aggressive** is missing below?

g r s i v

g a s e

☐

Trace the word **aggressive.**

_____

- -

_____

- -

Complete the word **aggressive.**

aggre_____	**_____sive**	**_____e_____**	**agg_____s__**

Write your own exclamation containing the word **aggressive** as an adjective.

_____

_____

Write a synonym and an antonym for the word **aggressive.**

Synonym: _____

Antonym: _____

Edit and improve these words so that they correctly spell the word **aggressive.**

agressive aggresive agresieve

Words Ending with a /chuh/ Sound Spelt with 'ture'

Practise your weekly spelling words using cursive handwriting.

creature

picture

nature

furniture

capture

culture

moisture

future

gesture

structure

Daily Arithmetic challenge 1

Monday

1) 721 ÷ 10 =
2) 4271 + 101.5 =
3) 92 999 – 6236 =
4) 6^3 =
5) 5^3 + 78 =

Tuesday

1) ½ of 56 =
2) 29 x 73 =
3) 479 ÷ 4 =
4) 2021 ÷ 100 =
5) 12.6 + 9.6 =

Wednesday

1) 1125 ÷ 5 =
2) 166 + 91 =
3) 7 x 7 x 2 =
4) 2/5 of 60 =
5) 51 x 100 =

Thursday

1) 12 x 9 = 108
2) 121 - 61 = 60
3) 5 x 20 = 100
4) Round 94 to the nearest 10 = 90
5) What is the value of the 6 in 60 251 = 60 000 or sixty thousand

Friday

1) 911 ÷ 6 = 151 r 5
2) Round 521 to the nearest 1000 = 1000
3) 11.4 – 7.5 = 3.9
4) 172 + 59 = 231
5) 428 – 356 = 72

Daily Arithmetic challenge 2

Monday

1) 457 + 2348 =
2) 7386 – 5421 =
3) Round 4356 to the nearest 100
4) 34 x 100 =
5) 1/3 of 45 =

Tuesday

1) 46 x 7 =
2) 245 x 23 =
3) 11^2 =
4) 2/5 + 1/5 =
5) ___ + 34 = 78

Wednesday

1) 396 ÷ 6 =
2) 8729 ÷ 7 =
3) 826 775 – 83 592 =
4) 3.4 + 2.9 =
5) 5 x 7 x 3 =

Thursday

1) 361 + 7356
2) Round 2517 to the nearest 1000
3) 437 + _____ = 6532
4) ____ x 3 = 45
5) 13^2

Friday

1) Change $\frac{35}{6}$ into a mixed number
2) Change $4\frac{3}{12}$ into an improper fraction
3) 29 x 7
4) 96 + ____ = 291
5) 1877 – 486

Daily Arithmetic challenge 3

Monday

1) 172 x 10
2) 2486 ÷ 100
3) 12.24 + 4.2
4) Find 4/5 of 40
5) 236 x 8

Tuesday

1) 237 ÷ 5
2) 941 – 704
3) ___ - 29 = 57
4) 64 x 10
5) 64 x 40

Wednesday

1) √ 81 (This symbol means square root)
2) $5^3 + 2^3$
3) 212 ÷ 7
4) 56 x 6
5) Write $9\ 3/7$ as an improper fraction (9 wholes 3/7)

Thursday

1) Miss Sewell has 90 apples. She decides to share these with Miss Bright. Miss Bright wanted them, but then decided to give a 1/3 away to Mrs Rawlins. How many does Miss Bright have left?
2) 5/7 + 13/14
3) Round 1861 to the nearest 1000
4) 999 ÷ 9
5) 4172 + 789

Friday

1) 361 + 7356
2) Round 2517 to the nearest 100
3) 437 + ____ = 6532
4) ___ x 4 = 64
5) 13^2