

### Year 6: Remote Learning Schedule

W/C 8 <sup>th</sup> February	Monday	Tuesday	Wedn	esday	Thur	sday	Fric	lay
	Lesson 1:	Lesson 2:	Lesso	on 3:	Less	on 4:	Lesso	on 5:
Maths (approx. 45 mins per lesson)	Find a rule – one step	Find a rule – two step	Forming ex	pressions	Substi	tution	Arithme Challenge yo	ourself wi
This week our focus is:	<i>Click on the link <u>here</u>.</i>	<i>Click on the link <u>here</u>.</i>	Click on the	e link <u>here</u> .	Click on the	e link <u>here</u> .	our weekly n che	
Algebra	-	os produced by White Rose westion correct (and you'r		-				
Remember to log in to TT Rockstars each week to practise your times tables!       Image your teacher on ClassDojo if you've forgotten your login details.								
S Tak	<b>Remen</b> e a photo of your work and	nber to share your le I upload it to your Dojo Por			-	her to see.		6
	Lesson 1:	Lesson 2:	Lesson 3:		Lesson 4:		Lesson 5:	
English (approx. 45 mins per lesson) This week our focus is:	Narrative: The Lanterns	To fix comma splicing errors in sentences	To plan a letter from an evacuee's host parent		To write a letter		To edit and improve a letter	
Letter Writing	The questions and resources can be found below; if you didn't get a particular question correct (and you're not quite sure why) then drop your teacher a message on ClassDojo!							
This week's spellings	are: accommodate, o	accompany, accordir	rg, aggress	sive, appc	<b>urent</b> (Remen	nber to test	yourself on I	Friday!)
Reading for Pleasure is s	uch an important part of our ding a poem or an extract fro	curriculum and you should be m a book.	reading every o	day. On Wed	nesday afternoo	n this week, yo	our class teache	er will uplo
Reading for Pleasure is s	ding a poem or an extract fro	m a book.		day. On Wed Mon:	nesday afternoo Tues:	n this week, yo Wed:	our class teache Thurs:	er will uploe Fri:



### Year 6 Knowledge Organiser: Algebra



		Academies trus
• The word "Algebra" comes fro word "al jabr," which translat broken parts". Explain why ye	om the Arabic ates to "reunion of you think this is.	<u>VIPs:</u> In algebra we don't use blank boxes, we use a letter (usually an $x$ or $y$ ). So we write: $x - 9 = 7$ The letter (in this case an $x$ ) just means "we don't know this yet" and is often called the <b>unknown</b> or the <b>variable</b> . When we solve it we write: $x = 16$
<ul> <li>How do we use algebra in every day life?</li> <li>Consider the reason why people set an alarm on their phone to wake up at a certain time. Describe how this is an example of algebra. (<i>Think about calcualtions involving time, money</i> <i>and distance.</i>)</li> <li>Key vocahulary term to term rule variable unknown expression equation formula formula formulae one-step equation two-step equation substitution pairs of unknowns enumerate possibilities linear number sequence halance</li> </ul>		<ul> <li>Here is a step-by-step approach to solving algebraic equations:</li> <li>Work out what to remove to get "x ="</li> <li>Remove it by doing the opposite (e.g. adding is the opposite of subtracting)</li> <li>Do that to both sides</li> <li>We must do the same to "both sides" to keep the balance; balance is very important in algebra.</li> <li>To keep the balance, what we do to one</li> </ul>
		<ul> <li>We want to remove the "-9" x -9 = 7 +9 0 16</li> <li>Do it to both sides x -9 = 7 +9 +9 0 16</li> <li>Enumerating means making a complete list of answers to a problem.</li> <li>Use a system for finding the possibilities.</li> <li>Organise your findings in an ordered list or table</li> <li>Have a way of deciding when all</li> </ul>
An <b>expression</b> is a group of numbers, letters and operation symbols. Multiply e by 3 and subtract Add 12 to f and then multiply by	$ \begin{array}{cccc} m b & & & & \\ m b & & & & \\ 4c & & \\ m d & & & \\ n d & & & \\ ct 5 & 3e - 5 \end{array} $	Index and g of accurate g intervalthe possibilities have been found.A linear number sequence is a sequence where each value increases or decreases by the same amount each time. To find the "rule" of the linear number sequence, find the difference between each adjacent number.An equation is a number statement with an equal sign (=). $a + 14 = 20$ $b - 20 = 15$ $4c = 28$ $d + 12 = 30$ $3e - 5 = 10$ $2(f + 12) = 44$ $A$ linear number sequence is a sequence where each value increases or decreases by the same amount each time. To find the "rule" of the linear number sequence, find the difference between each adjacent number. $4c = 28$ $d + 12 = 30$ $3e - 5 = 10$ $2(f + 12) = 44$ $404 + 404$ $(-5) - 5$ $(-5) - 5$ <br< td=""></br<>



# PONTEFRACT

White

Rose Maths

## Maths lesson 1: Find a rule – one step (Main Task - Blue)

#### Find a rule - one step



Calculate the inputs for the function machines. 4





Write the missing functions in the function machines.

output

10

25

50







6

Calculate the missing inputs and outputs for the function machine.



3



#### Find a rule - one step



Write the missing functions in the function machines.









Input	3	4	5	10	20	100
Output	12					

4

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Rose Maths Maths Lesson 1: Red Tasks

If you find the main activity a bit too tricky, try these questions instead...



Varied Fluency



Maths Lesson 1: Gold Tasks

If you whizz through the main activity or feel confident and want to challenge yourself further, try these questions...



#### Varied Fluency

#### <u>RAPs</u>







## Maths lesson 2: Find a rule – two step (Main Task - Blue)

#### Find a rule - two step



output

8

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2

#### Use the function machine to complete the table.



Here is the same function machine with the steps in the reverse order.



Explain to a partner who you think is correct.

Use the function machine to complete the table.

Input	1	2	3	5	10	50
Output						

Who is correct?

3 Work out the missing outputs and inputs.





Which pair of function machines will give the same outputs for a given input?





- 3

÷ 2



Explain your reasoning to a partner.





#### Find a rule - two step







3

Which pair of function machines will give the same outputs for a given input?



Explain your reasoning to a partner.

Here are some 2-step function machines.

5

6

output

8

output

output

For each machine, write a single step that would give the same output.

Check your answers by inputting values.



Can all 2-step function machines be written as a 1-step function machine? Talk about it with a partner.

Here is a function machine.



a) Complete the table.

Input	10	3		
Output			40	280



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**b)** Rosie puts a number into the machine and she gets out the same number.

Work out Rosie's number.

- Mr Hall and Mrs Rose order some photos online.
- a) Mr Hall orders 16 photos.

How much does he pay?

- b) Mrs Rose pays £6.05
  - How many photos did she order?



Maths Lesson 2: Red Tasks

#### If you find the main activity a bit too tricky, try these questions instead...



Maths Lesson 2: Gold Tasks

If you whizz through the main activity or feel confident and want to challenge yourself further, try these questions...





#### Deepen the moment...

Karen is baking a cake.

The recipe she is using is very confusing. Help her find the correct measure for each ingredient.

Flour - 110g

Sugar - 5y + 15

Butter - 12(y - 10)

Butter cream - 23y + 13

Sugar is the same as flour.

Find how much butter and butter cream she needs.

Explain your reasoning.

#### PONTEFRACT Maths lesson 3: Forming expressions (Main Task - Blue) White Forming expressions Rose Maths Tommy uses multilink cubes to represent an unknown number and Complete the function machines. 4 base ten ones to represent 1 = x= 1 **c)** a) input output output input 6 3 2 6 Write algebraic expressions to describe the sets of cubes. The first one has been done for you. 12 9 7 11 <sup>1)</sup> 🚳 🚳 🚳 🚳 🖿 🖿 2x + 3 a) y \*\*\* y b) <sup>h)</sup> b) d) 60 60 input input output output 3 2 30 4 d) •) 🚳 🚳 🗖 🗖 🗖 🗖 50 5 5 10 y V Use Tommy's method to represent these expressions. a) x + 2b) 2x c) 3x + 1d) x + 6 5 Match each statement to the equivalent algebraic expression. Compare answers with a partner. Write the missing statements. 5 more than y 2yDO Use cubes to help you simplify the following expressions. y less than 5 The first one has been done for you. y - 5a) 2y + 5 + y = 3y + 5c) 6p + 2 - 2p y multiplied by 5 5 - y\$**\$** \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ **\$** y divided by 5 y + 5 **b)** 3a + 2 + a + adouble y 5y\$\$ \$\$ \$\$ **•** • \$\$ $y^2$

d) m + 4 + 3m - 3

13



5

### Forming expressions





Match each statement to the equivalent algebraic expression. Write the missing statements.





output

3

9

Write an algebraic expression to represent the perimeter of 6 each shape.





b











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Maths Lesson 3: Red Tasks

If you find the main activity a bit too tricky, try these questions instead...



RAPs/



**Maths Lesson 3: Gold Tasks** 

If you whizz through the main activity or feel confident and want to challenge yourself further, try these questions...







# Maths lesson 4: Substitution (Main Task - Blue)

#### Substitution

(the second seco

Ŵ

= 4 = 5



2

3



Use the given facts to work out the calculations.

a) \_\_\_\_ b) \_\_\_×

c) Create your own calculation that will be equal to 22

If x = 5, write the values of the expressions in the corresponding grid. The first one has been done for you.

3x	x²	2 <i>x</i> – 5
4 <i>x</i> + 2	<u>x</u> 2	2(x + 1)
7 <i>x</i>	<i>x</i> + 9	x - 7

15	

			Y
-			-
4	If $a = 10$ and $b = 6, y$	work out the values of the expressions.	
	<b>a)</b> a + b	<b>d)</b> 2 <i>a</i> + <i>b</i>	
	<b>b)</b> a – b	e) 3 <i>a</i> - 17	
	c) 2a	f) $2(a - b)$	
5	If $m = \frac{4}{5}$ and $k = 0.1$	I, work out the value of $m + 2k$	
6		It does not matter what $p$ and $q$ are, $p + q$ and q + p will always give the same answer.	
	Do you agree with M	Mo?	
	Explain your answer	t.	
7		m = 7 $n = 5$	
	Write >, < or = to co	ompare the expressions.	
	a) 2m	10	
	b) n - 1	5	
	<b>c)</b> 2 <i>n</i> + <i>m</i>	2 <i>m</i> + <i>n</i>	
	d) 7n	5 <i>m</i>	



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#### **Substitution**



Do you agree with Mo? Explain your answer.

7







	8			<i>a</i> = 10		
		Write the expr	essions in orde	r, starting wi	ith the sma	llest value.
)		5a	<i>a</i> + 5		$\frac{a}{5}$	a²

Write three different algebraic expressions that give a value of 40



9

x	5 <i>x</i>	5 <i>x</i> – 1
2		
10		
12		
	25	
		34
		99

*a* = 15

Maths Lesson 4: Red Tasks

#### If you find the main activity a bit too tricky, try these questions instead...



RAPs-

1a. Hafsa is looking at the values below. d = 2e + 5f = d - 2She savs. If e = 7 then f = 17. Is she correct? Explain your answer. 2a. Use the equation below to work out the value of a and b. a = 15 - 2b $b = 16 \div 4 + 3$ a =h =23 3a. True or false? e = 2f - 15When f = 20, e = 5. Explain your answer. 2

### Maths Lesson 4: Gold Tasks

If you whizz through the main activity or feel confident and want to challenge yourself further, try these questions...



#### Varied Fluency

#### <u>RAPs</u>







### Maths lesson 5: Arithmetic Test Paper 2

3 3 6 2 8 6 2

You have 30 minutes to complete your arithmetic test; set a timer so you know how much time is remaining. Remember to highlight symbols and to **show your working out.** When you have finished, use the answer sheet to mark your test and record your score out of 40. If you have any corrections, do these again in a different colour beside your previous answer.





7	= 587 + 3927		10	2.81 + 0.006 =			
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-							
8	756 ÷ 1 =		11	33=			



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		Unat 1			

1 mark



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60 100 - 900 = 22



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20	3408 - 573 =	23	14.4 - 6.59 =	





25

309 712 - 69 087 =



26	70% of 250 =	



 $16 \times 1\frac{3}{4} =$ 

29



30	$\frac{4}{5} \div 2 =$			
				-
			-	EO





<u>Deepen the moment...</u> Examine and explain the answer to the following question:

> 0.25 of A equals B. 33 (recurring) % of B equals C. If A is 108 then what is B and C?



**English: Practise your spellings – double consonants.** 

### Remember to... look, cover, say, write and then check!

accommodate	
accompany	
according	
aggressive	
apparent	

Use the first column to go over the letters and practise your handwriting joins.

Now write sentences for each of the spelling words.

PONTEFRACT



### English Lesson 1: To examine and explore a narrative text.

### <u>The Lanterns</u>

I remember when the lanterns first appeared on the horizon. It was close to midnight, as most strange occurrences often are, and I was lying awake in my bed desperately counting down the hours to morning. Morning would mean it was time for the harvest, and the start of the new calendar. The elders had always told us what happened if you were awake at midnight before the harvest, when the lights from the others would try to lure children away. We hadn't believed it, of course, but they'd insisted and so something about it had crept into our imaginations.

By that point, I'd been training as a healer for a year and was getting quite good at it. I knew most of the basic herbs and elixirs to heal the wounded farmers, but I still had much to learn. That night, when the lanterns appeared on the horizon, I was destined to learn quickly.

The weather was warm, even at midnight, with a clinging humidity that threatened to suffocate you if you weren't careful. Shadowy wisps of mist clung to the edge of the riverbank as I wandered out of the hut and made my way to the top of the wooded hill. I'd hoped to get a better look at the lanterns from up there but, by the time I reached the summit, they were already there ahead of me.

From a distance, as I clambered up the rocks and slippery gravel on the side of the mound, I had been convinced that the lamps were floating through the air, like the paper lanterns we released every new moon. When I arrived, I realised that I was wrong. What I saw, shocked me.

Each light was held in the pale hand of a ghostly figure. There were maybe a hundred, maybe more, each one no taller than myself and slender like elves. Their bodies were almost transparent, only the moonlight glinting from their edges gave them any shape at all. It took me a moment to take in the scene before one of them broke away from the group and floated towards me.

Perhaps I should have run, sprinted down the hill and hidden away in my bed and pretended like it had never happened. Still, I was never one to run away from adventure. Strangely, I wasn't scared by the creatures; if anything, they gave off an air of sadness rather than terror.

When the spirit reached me, it spoke to me. Its soft voice seemed to be a whisper on the night air, nothing more than hushed wind, but it was echoed by all of the others and soon filled my head with its noise. "We need you. We need you to heal us. It is important."

Now, I was scared. How could I heal these phantom spirits that had appeared from nowhere? They were insistent, though. Gradually, they surrounded me and took my arms and legs and lifted me into the air. They weren't rough, or menacing, just gentle and urgent. We rose higher and higher until we were surrounded by clouds. Tufts of cold mist lazily drifted past, the lanterns lighting the way the entire time until we burst into darkness. Up ahead, a pinpoint of light slowly started to grow until, finally, it became an ivory tower.

Fastest Finger!

You have 1 minute to scan the text and identify the words below.

- occurrences
- slender
- phantom
- menacing
- tufts
- pinpoint

Explore the meaning of each word.

Consider their meanings in the context of the text.

#### Questions

- 1. Look at the first paragraph. What is happening the following day?
- 2. That night, when the lanterns appeared on the horizon, I was destined to learn quickly.What does destined mean in this sentence?
- 3. Look at the paragraph beginning: 'Each light was held in the...'

Which words would best describe what the strange creatures look like?



#### Tick **two**.

- 4. What are the spirits carrying?
- Look at the paragraph beginning: *Perhaps I should have run...* Find and copy one word that is the root of the word terrific.

- - 6. Using information from the text, tick one box in each row to show whether each statement is true or false.

	True	False
The character is old.		
The character is training to be a witch.		
The character knows how to use herbs.		
The strange creatures were loud.		

7. Complete the table below with one piece of evidence from the text to support each statement.

Statement	Evidence
The character had started to believe the elders about the Others.	
The character hadn't expected to find anybody on the hill.	

### Deepen the moment...

'The strange creatures are completely harmless'

Do you Agree? Disagree? Both agree and disagree?

Explain your opinion of the above statement, using evidence from the text.

# English Lesson 2: Fixing comma splicing in sentences

A comma splice is where you join two sentences without using the correct punctuation. If a comma joins two sentences that both make sense on their own, then you have found a splice which will need correcting!

E.g. It was snowing outside, I ran to get my sledge. Comma Splice!

This comma splice could be fixed in any of these ways:

- 1. It was snowing outside. I ran to get my sledge. use a <u>full stop</u> and then start a new sentence
- 2. It was snowing outside I ran to get my sledge. use a <u>dash</u>
- 3. It was snowing outside; I ran to get my sledge. use a <u>semi-colon</u>
- 4. It was snowing outside so I ran to get my sledge. use a <u>conjunction</u>

However, don't assume all commas are comma splices! If you cannot create two sentences that make sense on their own, it is not a splice.

#### E.g.

( d

While it was snowing, I pulled my wellies on.

Subordinate clause (Does not make sense on its own)

Useful conjunctions for fixing comma splices:

Using a conjunction is one of the above ways of fixing a comma splice, but be careful to use one that will make sense in the sentence:





TASK: Re-write these sentences and fix any comma splices using one of these methods:

- Use a full stop and then start a new sentence
- Use a dash
- Use a semi-colon
- Use a conjunction

Remember, not every comma will be a comma splice, so check carefully.

1. Germany invaded Poland in 1939, this started the Second World War ..... ..... 2. World War 2 was a global event, countries had to mobilise their armies quickly. ..... 3. Many people were evacuated quickly before war was even announced, the fear of bombings forced this to happen. ..... 4. During the evacuation process, many children left their homes, they must have been terrified. ..... 5. Hitler wanted Germany to invade Britain, he ordered thousands of planes to drop bombs over British cities. 6. From September 1940 until May 1941, Britain endured the Blitz, Germany dropped bombs on cities, factories and houses. ..... 7. Fifty million people lost their lives, hundreds of millions of people were injured. 8. VE day, which stands for Victory in Europe, signalled the end of the war with Germany, this happened in May 1945. 

Deepen the moment...

Explain how to fix comma splicing. Include how you can spot a comma splice and how to know which commas are NOT comma splices.

# English Lesson 3: To plan a letter from an evacuee's host parent

Imagine that you are a host parent for an evacuee. You could live on your own like Mr Tom in 'Goodnight Mister Tom' or you could have a family of your own.

Mind map ideas for your host parent character:



#### TASK:

Your task this lesson is to plan a letter from the host parent to the evacuee's mother who is still in the city, reassuring her that her child is happy and well.

On the following page, write detailed notes in each of the sections as if you are the host parent. This means that you will eventually be writing the letter in the first person (I, we, our, us...).

You may wish to use the letter that you wrote last week as the evacuee to help you with this. Read back through the letter and imagine how the host parent would view the events that the evacuee writes about.

Remember, the host parent has never met the evacuee's parent! This means the letter will have a more <u>formal tone</u>.

#### Deepen the moment...

Explain and justify the planning process.

Why do we spend time planning our ideas before we draft them?


**Opening** paragraph (Include greetings, questions, reassure evacuee's mum)

Who you are (Describe the yourself and your family – job, pets, hobbies etc)

Where you live (Describe the setting – the village, your house, the countryside etc and how it might compare to the evacuee's home in the city)

What the evacuee has been doing (Have they been to school, tried new things, good/bad experiences)

**Closing paragraph** (Final messages, hopes for the future)

# English Lesson 4: To write a formal letter

Your task is to use the plan that you wrote yesterday to write a formal letter from the host parent to the evacuee's mum, who is still in the city.

As the host parent does not know the evacuee's parent, the tone will need to be much more <u>formal.</u>

<u>Here is a WAGOLL to help you identify the tone:</u>

Bluebell Cottage, Little Stonesthorpe, North Yorkshire, YO5 7NF

Dear Mrs Johnson,

I hope that this letter finds you in good health. My name is Julie and I am the host parent that is looking after your son, Bernard. I am eager for you to know that he is being very well cared for on my farm in Little Stonesthorpe and that he has settled in remarkably well with my family. Please rest assured that although he is happy, he does still miss you terribly and he looks forward to your reunion as soon as the war will allow!

As I have just mentioned, I live on a farm with my husband Arthur and our seven-year-old son, Terry, whom Bernard is sharing a bedroom with. I have longed for another child for a few years now, so being blessed with the chance to care for Bernard - even if temporarily - has cheered us up in these dreary times. Bernard has taken to my son Terry very quickly; whenever I look around they are climbing trees or pinching my baking together, the little scamps! He is a very well-mannered boy though, so please be content that he is behaving himself admirably well.

The farm has proved to be a very exciting place for Bernard to explore. May I ask, has he ever seen cows before? When he first encountered Bessie (our prize-winning Friesian cow), he was more than a little startled! It was a week before he would enter the same field as her! However, he has overcome these initial fears remarkably – I would even go so far as to consider the two to be friends! Bernard enjoys nothing more than the delicious, creamy milk that he himself has milked from Bessie.

Last Monday, Bernard joined our village school, St Cuthberts (a small, Catholic school which is luckily only down the lane from our farm). Again, he was very nervous on the morning, dressed in Terry's old uniform, but he is now very happy to attend every day. His teacher, Miss Marshall, has told me that he is excellent at Mathematics – he is quite advanced for his age. This is excellent news, is it not? Also, he adores the school dinners. I must say, he is eating very heartily now that he is in the fresh, countryside air!

I do hope that you will be able to visit us on the farm in the near future. I know that life must be very busy for you in the city, but please accept our invitation to visit and stay for a night or two if you ever have the opportunity. I wish you well in the war effort and pray for your safety.

Yours Sincerely,

Mrs J. Larkin

Use the following resources alongside yesterday's plan to help you write your letter:

VIPs: Features of a formal Letter:

- Sender's address usually positioned in the top right of the page which tells the recipient where the letter has come from.
- Date the date in which the letter was written
- An appropriate greeting used to address the reader (Dear...)
- Introduction usually an introductory paragraph asking about the reader.
- Themed paragraphs
- Written in first person uses pronouns such as 'I', 'me', 'we', 'my', 'us'
- Formal language and sentence structures (e.g. Avoid contractions such as 'I've')
- Fronted adverbials words or phrases at the beginning of a sentence to describe the action that follows.
- Five senses used to create an overall sense of your surroundings by describing what you can see, hear, smell, touch and taste.
- Parenthesis adds extra information for the reader and uses the punctuation: brackets, dashes and commas.
- Relative clauses clauses that describe a noun or pronoun and start with a relative pronoun such as: which, who, whose
- A range of tenses used: past, present and future
- Appropriate sign off e.g. Yours sincerely
- · Rhetorical questions directly addressing the reader
- Range of punctuation brackets, commas, exclamation marks, question marks, colons, dashes



# Year 5 and 6 Statutory Spellings

accommodate	category	determined	forty	marvellous	programme	soldier	
accompany	cemetery	develop	frequently	mischievous	pronunciation	stomach	
according	committee	dictionary	government	muscle	queue	sufficient	
achieve	communicate	disastrous	guarantee	necessary	recognise	suggest	
aggressive	community	embarrass	harass	neighbour	recommend	symbol	
amateur	competition	environment	hindrance	nuisance	relevant	system	
ancient	conscience	equipment	identity	оссиру	restaurant	temperature	
apparent	conscious	equipped	immediate	occur	rhyme	thorough	
appreciate	controversy	especially	immediately	opportunity	rhythm	twelfth	
attached	convenience	exaggerate	individual	parliament	sacrifice	variety	
available	correspond	excellent	interfere	persuade	secretary	vegetable	
average	criticise	existence	interrupt	physical	shoulder	vehicle	
awkward	curiosity	explanation	language	prejudice	signature	yacht	
bargain	definite	familiar	leisure	privilege	sincere		
bruise	desperate	foreign	lightning	profession	sincerely		

<u>Deepen the moment</u>

- AS

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Explain the techniques you have used in your letter to create a formal tone and the effect you intend them to have on a reader.

Use examples to support your explanation.

# English Lesson 5: To edit and improve a letter

**TASK 1**: Your task is to edit and improve your formal letter so that it meets all of the VIPs. Practise editing this opening paragraph from a different formal letter to ensure it meets more VIPs. You will need to change the wording of some sentences to make them more formal. Also remember to check for and edit the basics of:

- Spelling (use the Y5/6 spelling list on the previous lesson, a dictionary or Google!)
- Grammar (have you used the correct verb tenses?)
- Sentence structure (Do your sentences make sense? Have you use formal structures?)
- Punctuation

# Hi Mr Morris,

I'm called Jenny and I'm your sons new host mum! I have heard loads about you from him. He's settled in really well so far and we like having him with us. I don't think he liked the train jorney up from london at all, he was so nervous when he arrived! I hope you are coping well without him their.

Edited version:

VIPs: Features of a formal Letter:

- Sender's address usually positioned in the top right of the page which tells the recipient where the letter has come from.
- Date the date in which the letter was written
- An appropriate greeting used to address the reader (Dear...)
- Introduction usually an introductory paragraph asking about the reader.
- Themed paragraphs

- - Written in first person uses pronouns such as 'I', 'me', 'we', 'my', 'us'
  - Formal language and sentence structures (e.g. Avoid contractions such as 'I've')
  - Fronted adverbials words or phrases at the beginning of a sentence to describe the action that follows.
  - Five senses used to create an overall sense of your surroundings by describing what you can see, hear, smell, touch and taste.
  - Parenthesis adds extra information for the reader and uses the punctuation: brackets, dashes and commas.
  - Relative clauses clauses that describe a noun or pronoun and start with a relative pronoun such as: which, who, whose
  - A range of tenses used: past, present and future
  - Appropriate sign off e.g. Yours sincerely
  - Rhetorical questions directly addressing the reader
  - Range of punctuation brackets, commas, exclamation marks, question marks, colons, dashes

**TASK 2:** Now use your editing and improving skills to work on yesterday's draft of your formal letter. Use the WAGOLL on the previous page and the VIPs to help you. Use a different coloured pen or pencil for your editing so that your teacher can see the improvements you have made directly on yesterday's draft. If you wish to rewrite any parts of your letter, use the space below:





# <u>Deepen the moment</u>

Select one of the VIPs for a formal letter.

Explain how and why it has been used and the effect it has on the reader.

# **Reading for Productivity Lesson 1: PSHE**

# The Media's Effect on Body Image

These days we know that the media and body image are closely related. Particularly, the body image advertising portrays affects our own body image. Of course, there are many other things that influence our body image: parenting, education, intimate relationships, and so on. The popular media does have a big impact, though.

### 1.

Together, Americans spend 250 billion hours watching television every year. According to the California State University at Northridge, advertising accounts for about 30 percent of all television air time. The average child watches 20,000 television commercials every year. Of course, television is not the only place we see advertisements. Popular magazines, particularly women's magazines and many teen's magazines are brimming with ads. We even see pop-up ads online. Anything we look at for so many hours has to affect us. The media and body image are closely related due to the number of images we see in the media and the excessive amount of exposure we have to those images.



### 2.

Although advertising aims to convince us to buy things, ads seldom portray people that look like us. The average female fashion model wears a size two or four, for instance, while the average American woman wears a size 12 to 14. Clothing designers often say they only use very thin models because the clothes simply look better on them. In addition, photos of models in print ads are often "touched up" in order to disguise minor flaws or make the model appear even skinnier than she really is.

3. \_\_\_

These "false body image" ads, showing bodies that are not real at all or that are not very realistic or representative of the general population, have far-reaching effects. Some may argue that people can recognise when ads are showing an unrealistically "perfect" girl; after all, when we see a dog food commercial featuring a talking dog, we aren't fooled into thinking dogs can really speak, right?

Unfortunately, when it comes to body image, people and especially young children and teenagers can easily be confused. The constant barrage of unrealistically skinny images can stir up feelings of inadequacy, anxiety and depression. It can even lead to the development of eating disorders like anorexia and bulimia.

### 4.

Magazines and television are often blamed for portraying an ideal body image that causes people to question their looks and lose confidence in themselves. But what about the role social media plays in moulding attitudes to the way we look?



Kelsey Hibberd, from Southend, remembers her years at secondary school as being miserable. She intentionally kept her Facebook friends to a minimum because she knew they were the ones who wouldn't pick on her. It was all about my body and how I looked Kelsey explains, "I'd always been tall, and I was a bit podgy too, and the other children at school would point out everything that was wrong about me".

Eventually, Kelsey changed her hair colour and stopped eating to try to fit in before she realised that "it was for other people to stop hating on me", she explains. Now, at 20, Kelsey is running a mentoring programme called Loud Education, which goes into schools to talk to pupils and train teachers on how to deal with body confidence issues. As a result, she is well aware of the power of social media.



# 5. \_\_\_\_\_

Social media networks are the primary way young people communicate and their main channel to the outside world Kelsey explains, "There's just no way we can avoid social media but we can learn how to use them in a healthy manner!" An inquiry by the All-Party Parliamentary Group on Body Image has revealed that girls as young as five were worrying about their size and their appearance. Adults were not immune from these negative attitudes either, with about 60% of the public feeling ashamed of the way they looked. It is therefore not surprising that this pressure to look good has pushed up cosmetic surgery rates by nearly 20% since 2008.

MP Caroline Nokes was a member of the parliamentary group which, along with a number of charities, businesses and public bodies, is launching a campaign to change attitudes to body image, called Be Real: Body Confidence for Everyone. She has visited schools and talked to 12- and 13-year-olds about how easily images in the media can be altered, enhanced and improved to create something far from realistic. They understand, she says, because they go through the same process when they post images on social media sites. "I ask them to shut their eyes and put their hand up if they have ever enhanced an image on Facebook," Ms Nokes says. "They usually all put up their hands" she says.

### 6. \_\_\_\_\_

Most cameras in smart phones have built-in filters and a range of effects that can be used to enhance even the most embarrassing selfies. Social media has a huge effect on young people's body confidence, Ms Nokes explains, because it cannot be ignored. "Social media networks are the primary way they communicate and their main channel to the outside world," she says. "But they are seeing the world through a filter, and that's not healthy. "Ms Nokes' aim is to educate young people, to make them more cynical about the images they see and admire, and to work with retailers and businesses to encourage them to be more responsible in their advertising.



Dr Phillippa Diedrichs, senior research fellow at the University of West of England's Centre for Appearance Research, says research backs up the link between social media and body image concerns. "The more time spent on Facebook, the more likely people are to self-objectify themselves," she says. She explains there is a tendency to seek out negative social interactions in these forums, and to ask people to comment on how you look, which can lead to more body image anxieties.

### 7. \_\_\_\_\_

In Dr Diedrichs' view, the answer to body anxiety is to showcase a more diverse range of bodies in the media because there is not just one way to be healthy or one ideal look. Kelsey agrees. She rebuilt her confidence by volunteering with the YMCA when she 15. When she went to college, she started to rediscover who she was and feel comfortable about her body again. Now she has plans to go into advertising: "I want to get in there and change the norm, change perceptions for the better. People are drip fed so why not drip feed them with positive things," she says.

### <u>Questions:</u>

1: Complete the missing text headings:

- > A Toxic Mirror
- In Comes Social Media
- > Plastic Surgery and Photoshop
- > The Answer to Body Anxiety?
- > The Body Image Advertising Portrays
- ➢ The Effects of False Body Image Advertising
- ➢ The Media and Body Image
- 2: Mark the following statements as True or False according to the text:

	True	False
1. The media and body image are closely related.		
2. Americans spend 250 billion hours watching television every year.		
3. Today, television is the only place we see advertisements.		
4. Ads usually portray people that look like us.		
5. Photos of models in print ads are often "touched up".		
6. People always recognise when ads are showing an unrealistically "perfect" girl.		
7. The ideal body image in ads causes people to question their looks.		
8. Kelsey Hibberd from Southend, admits to having been a bully.		
9. Kelsey changed her hair colour and stopped eating to try to fit in.		
10. Social media networks are the primary way young people communicate nowadays.		
11. Ms Nokes says that most children have never touched up their pictures.		
12. In Dr Diedrichs' view, a more diverse range of bodies should be showcased in the media.		

3: In the first paragraph, what is stated as the aspect of media that has a big effect upon our body image?

4: What reason, under section 3, is given as evidence to back up the argument that people can recognise when adverts are unrealistic?

5: In section 5, why is it stated that there's just no way that we can avoid social media..."

# Deepen the moment...

Always, sometimes or never?

Social Media has a positive effect on everyone who uses it.

Explain and justify your opinion, using evidence from the text.



# Year 6 Extended Curricular Learning

# <u>PSHE – Mental Health and Wellbeing</u>



Monday 8th February 2021 - Activity 1

# <u>VIPs:</u>

The images we constantly in the media can have a huge impact on our thoughts and actions. Understanding that media can influence our body image can help us regain some control and be aware of negative thoughts we may have. Not all images we see are genuine or realistic; some have been 'enhanced' or altered to make viewer think or feel differently.

Pressure to behave in an unacceptable, unhealthy or risky way can come from a variety of sources. Having techniques for resisting pressure to do something dangerous, unhealthy or which makes you uncomfortable is essential.

Today, you will learn about how popular media can have an influence on our personal 'body image' – how we feel about our body and how we look. We have learnt that not all images we see in magazines, TV and on social media are realistic and may have been 'enhanced', which can lead young people to compare themselves to unrealistic images which may affect their self-esteem.

MP Caroline Noakes is launching a campaigned to help change attitudes to everyone, called 'Be Real: Body Confidence for everyone'. Your task is to design an advertisement campaign that could appear on social media to help inform young people about the campaign and their important messages.

Design a poster or digital image using ICT that could be displayed in a magazine or on social media for the campaign, 'Be Real: Body Confidence for everyone'.

Think about how your images and words could have a positive effect on young people and inform them of the key facts from today's reading for productivity text. Consider persuasive text features to further encourage young people to support the campaign.

# Deepen the moment...

Should media be banned from altering images that they use in magazine or on websites?

What would the pros and cons of a ban on altering images be? Write notes for both sides of a balanced argument on this question and decide which side of the debate YOU would agree with.



# Reading for Productivity Lesson 2: Computing Safer Internet Day 2021

Every year since 2005, schools in more than 150 countries across the world have supported Safer Internet Day, which provides schoolchildren and school staff with information on how to stay safe online. It aims to raise awareness of current online issues and to help young people look after their wellbeing and safety when using the Internet. This year's event is being held on Tuesday 9<sup>th</sup> February 2021.

Different each year, in 2021, the Safer Internet Day theme is 'An Internet we trust: exploring reliability in the online world'. This has been chosen to highlight the importance of questioning the reliability and trustworthiness of what we see online by asking, what is accurate and what is fictitious?

## An Internet We Trust: Exploring Reliability in the Online World

The online world is an incredible fount (source) of information: - it presents opportunities to research, learn new facts or skills and can even broaden viewpoints for people of all ages. The Internet is also an important way for young people to connect and experience positive relationships - to play, interact and share their lives with their peers. However, young people should approach the online world with some caution as they navigate around it and should be constantly making decisions about who and what to trust in the context of playing games together and socialising online.

Safer Internet Day gives young people the chance to develop the skills they need to be able to make the best decisions as they navigate an online world, where everything is not always as it seems. The 2021 campaign will focus on showing young people how to decide what they can trust on the Internet, as well as supporting them to question, challenge and improve the online world. They want to create a supportive yet critical and questioning environment, which encourages debate and discussion.

Once they are more confident at separating fact from fiction, it is crucial that they feel comfortable to speak out against harmful and misleading content online and to take the next steps in helping to create an Internet full of trustworthy and reliable information.

# Did You Know...?

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Globally, over 4.6 billion people are regular Internet users according to a study from October 2020. This encompasses approximately 59% of the global population.





People tend to share the prettiest, happiest pictures of themselves online to try and portray (show) the kind of life (and person) they want to be. However, many photos often embellish (exaggerate) real life. Images of other people's (carefully chosen) so-called, perfect lives can sometimes leave you feeling down. Try not to compare yourself; remembering that these photos probably don't tell the whole story.

### Fake News

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Despite the Internet being a great source of news and information for young people, we should not always believe everything we read. Worryingly, the online world also contains inaccurate content and fake news. Fake news is false information that is published under the pretence of being trustworthy and reliable news.

Sometimes, completely false stories are deliberately published to make people believe something untrue or to get lots of people to visit a website. There are also stories that have some truth to them but are not entirely accurate. This is because the journalists or bloggers writing them don't check all the facts before publishing the story or they might exaggerate some of it.

Phony and fabricated information can be incredibly harmful as it can influence and persuade our decisions, actions, views and opinions, as well as what we share online. It also destroys the trust we have of people in the media, many of whom are in fact reporting honestly.

Safer Internet Day 2021 will look at why inaccurate content exists, where it comes from and how young people can manage it.

# **Reducing Screen Time**

If you find yourself spending a lot of time online and even thinking about it when you're offline, then you probably need to reduce your screen time. While the Internet can be fun, there's a whole world out there, waiting to be explored. Make sure you take regular breaks away from electronic devices. It's all about striking a good balance.



# Our Use of the Internet

Many people across the world are using the Internet in their daily lives. We can use the Internet in a multitude of different ways. For example, here are some online activities that people enjoy:

- listening to music
- watching humorous videos (and making their own ones)
- chatting with friends
- using apps to keep in touch with family who live far away
- gaming (and watching walk-throughs of other people gaming)

How do you like to use the Internet?

# **Staying Safe Online**

The Internet is an incredibly powerful and convenient tool that can be accessed at all times of day or night, through devices within hand's reach. However, staying safe online by looking after ourselves and each other is very important.

It is sadly not uncommon for young people, when in a group chat or playing an online game or another activity, to see or hear something that causes worry, confusion or unease. Fortunately, if this happens, there are ways to report the problem so that it is less likely to happen again. For example, many apps and games have 'Report', 'Help' or 'Block' buttons. 'Report' can help us to report anything that makes us feel unsafe or unhappy. 'Help' is if you

have a problem with an app and 'Block' is useful if you don't want to receive any more messages from someone. Saving evidence (such as a picture or a message) can also be useful.

Most importantly, we should tell an adult if we feel worried, confused, unsafe or unhappy about anything that happens while online.



The Internet is an amazing place to be creative, chat with friends and find interesting, fun stuff. Safer Internet Day 2021 wants to celebrate the amazing range of information and opportunities online, and it's potential to inform, connect and inspire young people while also being safe, sensible and able to separate fact from fiction.

Primary Resources - KS2 X



# <u>Questions:</u>

- 1. What are the aims of Safer Internet Day?
- 2. Using information from the text, tick one box in each row to show whether each statement is true or false.

	True	False
Safer Internet Day started in 2005.		
This year's event is being held on Tuesday 9th February 2021.		
The Safer Internet Day 2021 theme is 'An Internet we can rely on: exploring trustworthy content online'.		
You should believe everything you read on the Internet		

- 3. ...young people should approach the online world with some caution.What is meant by this?
- 4. Describe the two different types of fake news that can be published on the Internet and why journalists or bloggers write them.
- 5. Find and copy a word that means the same as 'fake' and 'fictitious'.
- 6. Watching humorous videos...

The word 'humorous' suggests that the videos are... Tick one.

important 
unnecessary

funny

hurtful

Describe the buttons that can help users to stay safe online.
 Support your answer with evidence from the text.



- 8. What percentage of the global population are online?
- 9. Your friend is worried they have been spending too much time online recently. What advice would you give to them and why?

# Deepen the moment...

Why do you think it is important for us all to learn about staying safe online and exploring reliability in the online world?

Fully explain and justify your reasons, using evidence from the text to support your answer.



# SAVE the DATE Safer Internet Day

# Year 6 Extended Curricular Learning

# <u>Computing – Safer Internet Day</u>





# VIPs:

- Reliability in the online world is vital. The internet is filled with unbelievably amazing content but some things can also be unreliable. The reliability of the content can affect how we and others both think and feel.
- A motive is why someone does something and it is important we consider the motive behind why people are posting the things they are on the internet.
- Asking questions is a simple thing that we can do to help us work out the motive behind the things we see online.
- Edited images and videos: When photos and videos are changed using online software (e.g. to make them look more 'impressive', to create a more finished product, or even to change the meaning of it).

Today, you will learn about the reliability of the internet and photos we see. You will understand how important it is that the internet is a world that we can trust, but is often a place of unreliability. You will explore and examine the reliability of the online world and what we can do to ensure we keep ourselves and others safe, by creating a marketing campaign that will explain and inform other children your age of the unreliability of the internet and what they can do to protect themselves against it.

- 1. Explore one form of online content: edited images / photos / fake news / influencers and celebs.
- 2. Consider the motive/s behind why these may be online / posted online etc. how could they make you or others feel?
- 3. Consider the reliability of their post/s and the motives behind them.
- 4. Create a marketing campaign / pitch to other children of your age explaining and informing them of the unreliability of this form of online content.
- 5. You must explain and include the following: key terminology, examples of the unreliability of this content and the motives behind them - why it is unreliable? How could they make us feel? Provide 'top tips' to help others question and recognise the unreliability of the content and what they can do to combat it.
- 6. You could do this as a presentation, a speech, a poster or create your own video it is your choice!

Possible videos to support your understanding: https://www.bbc.co.uk/teach/safer-internet-day-resources/z6bbhbk https://vimeo.com/480840050

# Deepen the moment...

In 5 years', time, do you think the information online will be more or less reliable?

# Explain and justify your reasons.





and videos





Influencers and Celebs



# **Reading for Productivity Lesson 3: Geography**

# The Environment and Global Economies

As we enter the new millennium, the challenge for humankind is to transform the existing economy into one that does not threaten or destroy the environment. This Environmental Revolution can be compared to the Agricultural Revolution and the Industrial Revolution of the past.

Archaeological findings reveal that the great civilizations at the dawn of history pursued economies that were fairly destructive to the environment. However, the people then were unable to change what they were doing because they did not understand what was happening. Either that or they could not persuade their governments to bring about the necessary changes.



Today, however, we have the power to bring about changes to stop the destruction of the environment because we are becoming more aware of how our lives are shaped by the environment. Even when events do not directly affect us, reports in the mass media expose us to the extensive damage caused by such events. Fishery collapses, water shortages, rainforests burning uncontrollably, sudden deaths of birds, dolphins and fish, record heat waves, and raging storms that cause widespread destruction only serve to increase our awareness that our survival depends on the weather which in turn depends on our ability to maintain the ecological

balance.

Decades before, it was mainly environmental activists who played a dominant role in drawing attention to the gradual destruction of the environment. Today, directors of large corporations, government ministers, prominent scientists and intelligence agencies are speaking out on the need to change. They have a clear sense of what has to be done for they know that the current economy cannot take us as far as we want to go under the present circumstances.



People can now make decisions that will help restructure economies. For example, companies who want to buy timber products can decide whether to buy from companies that are managing forests in a responsible manner or from companies suspected of illegal logging practices. Consumers in the United States, for example, can choose to buy power from 'green' sources as buyers become more aware of different energy sources available. Governments can also decide to become a 'green consumer' by opting for sources of electricity that are climate-friendly and buy paper that has a high recycled content.

Time is of the essence and the new economic practices must be accepted quickly. The only way this can be done is to spread accurate information quickly and on a regular basis. For example, information on climatic changes, and of how the inefficient use of water can lead to food shortages must be shared. Media coverage of environmental trends and events must also be stepped up.



- 1. What challenge will humankind face as we enter the new millennium?
- 2. What two events does the text compare the Environmental Revolution to?
- 3. Why couldn't people in the past stop the destruction of the environment?
  - □ They were ignorant simple peaceful people.
  - □ They did not realize that their actions were slowly destroying the environment.
  - $\Box$  They did not know people in the governments.
  - □ Their governments did not believe that the environment was being destroyed.
- 4. The people of today have become more aware of the relationship between the weather, environment and global economies because of ...
- 5. Give two examples the texts give of how the weather can negatively impact our planet?
- 6. What is an environmental activist?
- 7. Who is paying more attention to preserving the environment today?
- 8. What is a 'green consumer'?
- 9. What is the writer trying to convey in the expression: Time is of the essence?
  - □ The very essence of life is time
  - □ it is important
  - We must not delay
  - □ Time is life
- 10. The writer emphasises two elements in the last paragraph: time and ...

# Deepen the moment...

What advice would you give to companies who want to become more 'green' in their businesses?

Explain your reasons and why you think it is important for companies to act on.



# Year 6 Extended Curricular Learning

# <u>Geography – The Environment</u>



# <u>Wednesday 10<sup>th</sup> February 2021 – Activity 3</u>

# <u>VIPs:</u>

As we enter the new millennium, the challenge for humankind is to transform the existing economy into one that does not threaten or destroy the environment.

Today, we have the power to bring about changes to stop the destruction of the environment because we are becoming more aware of how our lives are shaped by the environment.

Things we can do to protect the environment are: recycling, using resources sustainably, limiting deforestation and destruction of habitats, using sustainable energy as opposed to fossil fuels, etc.

Your task is to research more about recycling in the UK. You should explore the following ideas:

- Which household items can be recycled?
- What happens during the recycling process?
- What the consequences are for not recycling these items.

Useful links:

https://www.businesswaste.co.uk/recycling/fun-recycling-facts-for-children/ https://www.ducksters.com/science/environment/recycling\_for\_kids.php

Using this research and new knowledge, create an advert which persuades people to recycle more in the UK, using the information you have gathered. Create a script for the advert that could be shown to children, which encourages them to care more for the environment. You should explore all of the different ways in which they can protect the environment.

# Deepen the moment...

# "Only 50% of household waste is recycled per year."

How can MPs and our government convince people to care more for the environment? Could there be incentives put in place which rewards peoples for being environmentally aware?









# **Reading for Productivity Lesson 4: Science**

# Air Resistance

# What is friction?

Friction is a **force**. It happens when two objects rub together creating a resistance of motion. It works against the **motion** and in the other **direction**. Like if you're trying to slide a piece of furniture along the floor in your house, it's going to be easier to slide on laminate or wooden floor than it is on the carpet. And that's all to do with the friction caused between the carpet and the piece of furniture.



Sometimes we need friction. Like if we're riding a scooter, when we put our foot to the pavement, we use the friction to slow us down. This is also how ice skaters change their **speed** and direction, using the friction between the ice and their skates. Friction can also create **heat**, like when we're cold and we rub our hands together to warm up. That's because of the friction of our two palms rubbing together.

But it can sometimes be bad, too. Like when we fall on the ground and the friction between our skin and the floor causes us to scrape our knee. (Ouch, right?) Or when our shoes get worn out at the bottom because of the constant friction between them and the ground. Or it's a good excuse to buy some new shoes, so I guess that one is up for debate on whether it's a good or bad thing.

There are also two types of friction-**static and kinetic**. Static friction happens when two objects aren't moving and kinetic friction happens between two objects that are. Air resistance is just one type of friction.

## What causes air resistance?

Also known as '**drag**,' air resistance is a force caused by air. The **air particles** hit the front of an object, causing it to slow down. The greater the surface area, the greater the number of air particles hit the object and the greater the overall resistance.

There are two main things that affect **air resistance**- the speed of the object, and the cross-sectional area of the object. The faster an object is going, the more air resistance there'll be. It's the same for a large **cross-sectional area**; an increased area leads to an **increased amount of air resistance**.

## Examples of air resistance

Here are some examples of air resistance in everyday life.

**Wind-** When the wind blows, it is sometimes difficult to walk through the air. This is because the air resists your force and pushes back against you. **Parachute-** When a skydiver jumps out of an aeroplane, they open a parachute. Air resistance causes them to parachute slowly to the ground. **Bicycle-** When you ride a fast bike, air resistance pushes you back.



**Aeroplane-** When an aeroplane is flying up in the air, the air particles hit the aeroplane so that it's more difficult to move through the air.

**Leaves-** On a windy day, when you see leaves falling from a tree really slowly, that's because air resistance is slowing down its fall.

**Umbrellas-** You know that annoying experience when it's raining cats and dogs and you put up your umbrella, but it's really difficult to hold because of the wind? What's that, you say? That's air resistance, too? Yup.



### Air resistance and streamlining

For things to move quickly and efficiently through air or water, objects need to have a small surface area. This is because the bigger the surface area, the greater the resistance. This means that objects need to be streamlined in order to push against the air's force.

Trains are designed to be streamlined so they can move quicker, getting you from one destination to the next! Even people can try and be streamlined, like swimmers, for example. They try and maintain a streamlined shape during races so that they can get through the water quicker. But this is because of water resistance, rather than air resistance (hence, you know, them being in water and everything).

### What are the three main types of air resistance?

Air resistance, or drag, can be put into one of three categories; lift induced, parasitic, and wave. Each of these types of air resistance affects an object's ability to stay up and the power it will need to keep it there.

**Lift induced** air resistance happens as the result of the creation of lift on a three-dimensional lifting body (wing or fuselage). **Parasitic drag** happens when a solid object moves through a fluid. This type of air resistance is made up of lots of components like 'form drag' and 'skin friction drag'. **Wave drag** is made when an object moves at a high speed through a compressible fluid.



- 1. Name two things that friction can help control or create.
- 2. What are the main factors that can affect air resistance?
- 3. Match the following types of air resistance with their cause:

When an object moves at a high \_\_\_\_\_\_ speed through a compressible fluid \_\_\_\_\_\_

Happens as the result of the creation of lift on a three-dimensional lifting — body (wing or fuselage)

- 4. Summarise the meaning and uses of streamlining.
- 5. Summarise the first section of the text, based on 'friction', in 3 sentences.
- 6. Describe the link between **friction** and **air resistance**?
- 7. What is the difference between **air particles** and **air resistance**?
- 8. **Lift induced** air resistance happens as the result of the creation of lift on a threedimensional lifting body (wing or fuselage).

What does the word '**fuselage'** mean?

### <u>Deepen the moment...</u>

How do birds use air resistance in order to fly?

How do you think the wingspan of a bird impacts their flying speed and ability to hover in the air for any length of time?



# Air Resistance

# Year 6 Extended Curricular Learning

# <u>Science – Air Resistance</u>



<u>Thursday 11th February – Activity 4</u>

# <u>VIPs:</u>

- Air resistance pushes against an object falling through the air (due to gravity).
  - The mass of the object does not affect how fast it falls.
  - The surface area determines how much air resistance there is.
    - The larger the surface area the greater the air resistance.

Today, you are going to create your own parachute investigation in order to answer the following question:

'What impact do different factors have on the amount of air resistance?'

You could create an experiment to investigate how different factors could have an impact on the amount of air resistance. You could choose to investigate one of the following; the height of the drop, the size of the parachute, the shape of the parachute, the distanced dropped, the length of string or the object attached to the parachute.

When planning your experiment, think about these questions: What equipment will you need? What method will you use? What will the controlled, independent and dependent variables be? What do you predict your results to be and how will you record them?

Once you have concluded the results of your experiment, see if you can draw a diagram to represent how air resistance worked against the object that you used in your experiment.

# Deepen the moment...

Prove it! If two 3D shapes (with the same surface area) are dropped from the same height will they fall at the same speed?

Useful links:

https://www.youtube.com/watch?v=Aoy3j9tbOk0&feat ure=emb\_logo

<u>https://www.bbc.co.uk/teach/class-clips-</u> <u>video/science-design-and-technology-ks2-harnessing-</u> <u>air-resistance-with-parachutes/zjps382</u>





# **Reading for Productivity Lesson 5: PSHE**

# **Conflict Resolution**

Conflict resolution is a peaceful way of trying to solve a conflict with resolution. Both sides in the conflict explain what they feel happened to cause the conflict. The person who listens to both sides is called the **mediator**. After both sides state what they feel happened to cause the conflict, they discuss ways to solve the conflict. They try to come up with a "resolution" that both sides agree to.

Communication throughout the entire conflict resolution process is always exchanged in a calm manner without anger. Everyone attempts to use good listening and attending skills while people are talking. If voices get too loud or it appears that someone is angry, the mediator's role is to address this and have the people treat each other with respect. After various suggestions are shared in how to mediate the conflict, discussion centres on the best solution. Conflict resolution can also be called dispute resolution. It is used in many environments to help solve disagreements in a peaceful way.

This is an example of how conflict resolution works in a school playground setting:

- Someone says that a student pushed them on the football field.
- The person accused as the "pusher" claims it was an accident.
- The person pushed gets the mediator.
- The mediator takes the two people who are upset somewhere in a quieter spot and away from others to talk.
- The mediator calms everyone down and lets them know that he understands their feelings.
- Each person describes what happened.
- The mediator asks for clarification if something is not clear.
- The mediator repeats what he heard so it is clear to everyone and /she identifies with those involved.
- The mediator asks for ideas to solve the problem.
- The two individuals offer ideas and solutions to the problem.
- The individuals discuss the ideas and solutions and come to some agreement on the solution.
- The mediator makes sure the individuals follow-through on the solution whether it is to say they are sorry, to shake hands or to play nicely together, etc.
- · The mediator offers praise for solving the problem.

Conflict resolution can work in many settings and it can work with several individuals at once. In any event, it is worth trying to get at the heart of the matter by involving the peers themselves who have a concern. It encourages them to analyse what really happened, to share their feelings about the conflict, and to work together peacefully to solve the problem. Conflict resolution gives those involved a structure to use with a mediator to help reach an agreement. It allows onlookers to see a workable framework.





# <u>Questions:</u>

- 1. What word in the text means the same as "a solution to the conflict"?
- 2. Why do you think the author included the bullet points in this particular text about conflict resolution?
- 3. According to the text, what is the most likely reason to use conflict resolution?
- 4. Explain the ideal communication in the steps to solve a conflict.

How should a person talk, etc.?

5. Give an example of when you used one or more steps of conflict resolution to work on a problem, even if you may not have known what the step was called. Explain the people involved, the problem, and the outcome. Did you solve the problem?

# Deepen the moment...

How important do you think conflict resolution is to your life today?

Is it more, less or just as important in your future life?



# Year 6 Extended Curricular Learning

PSHE - Conflict Resolution

Friday 12th February 2021 - Activity 5



# <u>VIPs:</u>

Conflict resolution is a peaceful way of trying to solve a conflict with resolution. Both sides in the conflict explain what they feel happened to cause the conflict. The person who listens to both sides is called the **mediator**. After both sides state what they feel happened to cause the conflict, they discuss ways to solve the conflict. They try to come up with a "resolution" that both sides agree to.

Today, you will learn about how to deal with and react to conflicts in the best possible way in order for them to be resolved effectively. Your job is to use the suggestions in your reading for productivity text and also conduct your own research to design and create a leaflet advising people on techniques they can use to stay calm when conflicts happen and the best ways they can deal with conflicts.

Your leaflet can include pictures and examples of situations if you wish.

You should aim to include at least three or four ways people can calm themselves down when they feel angry or upset.

The title of your leaflet will be: 'Think before you act'.

# <u>Deepen the moment...</u>

Create your own scenario where a conflict occurs and demonstrate the best way to resolve it. Explain ways in which this conflict could have been prevented.

You could act this out through role play or write your own script for your scenario.





# **Iheart Session 3**

# Very Important Principles (VIPs):

- Intelligent systems are constant, reliable, universal, resilient and harmonious. Our psychological system is an intelligent system and displays all these features.
- Wellbeing is built into or innate to our psychological system. Therefore no one and nothing can give us or take away our wellbeing, and put a feeling in use. Our feelings are connected to our thinking.
- When we think that someone or something can put a feeling in us or take away our wellbeing, this is an illogical thought.
- When we don't think that someone or something can put a feeling in us or take away our wellbeing, this is a logical thought.



How are you feeling? Write down a moment where you felt at your 'best self' last week?

Write down a moment where you didn't feel your 'best self.

Our psychological system is an intelligent system	
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# Iheart Session 3

Superstitions. Do you have any superstitions? Do you or someone you know believe that if they see or do a certain thing, things will go wrong?

Are they logically or illogically thinking?





# **True or False Quiz**

Answer each of these questions with true or false.

Q1 If you drop an object, it is difficult to predict if it will fall or float.	True/False
Q2 Professor Lewin's experiment would work differently depending on who released the ball e.g. a headteacher, a parent or a student.	True/False
Q3 Intelligent systems, like gravity and kinetic energy, can be switched off.	True/False
Q4 Psychological means the way our bodies work and how we use our arms and legs.	True/False
Q5 We can see our psychological system under a microscope.	True/False
Q6 We all have different psychological systems and they work differently for each one of us.	True/False