

Friday 24th April

Home Learning

9-9.30 Brain wake and shake with Joe Wicks



LO: I can review my understanding of working with unknown numbers.

formula

common

difference

linear

pronumeral

sequence

algebra

nth term

unknown

algebraic

identity

expression

$$a + 3 = 5$$

single identity

$$a + b = 5$$

multiple identities

$$a + 3 = b$$

unlimited identities

How are these the same?
How are they different?

Do the work on these
slides and then hand
in.

Can you sort these equations into those with single, multiple or unlimited identities?

Do the work on these slides and then hand in.

$$2k = 6$$

$$8 \div h = 2$$

$$d = 15 - f$$

$$ab = 12$$

$$s + 3 = 5$$

$$6g + y = 21$$

$$10 - d = 1$$

$$7 + v = d$$

$$w - b = 17$$

$$6g + y = 21$$

Do the variables in this equation have single, multiple or unlimited identities?

Do the work on these slides and then hand in.

$$2x = y$$

x	y
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

If both a and b are whole numbers which are less than 12, what might their identities be?

Try it on your own, then check your answers.

Do the variables in this equation have single, multiple or unlimited identities?

$$ab = 9$$

a	b
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Deanna says, "If both a and b are whole numbers, they must be odd." Do you agree?

Try it on your own, then check your answers.

Do the work on these slides and then hand in.

Do the variables in this equation have single, multiple or unlimited identities?

Do the work on these slides and then hand in.

$$7d + 4 = k$$

d	k
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Can you strategically find the first 5 possible values for d and k?

Try it on your own, then check your answers.

Do the variables in this equation have single, multiple or unlimited identities?

Do the work on these slides and then hand in.

$$5p - 6 = 44$$

+ 6

+ 6

$$5p = 50$$

÷ 5

÷ 5

$$p = 10$$

How might you find the value of p?

isolate the variable!

Can you write an algebraic expression to describe this linear sequence?

Try it on your own first, then check your answer.

1, 5, 9, 13, 17...

$$4n - 3$$

But it is 3 less than the 4 times tables, so it must include 'subtract three'

Can you find the first five terms in the sequence described in this expression?

Try it on your own first, then check your answer.

$$3n + 2$$

1st term	$3 \times 1 + 2$	5
2nd term	$3 \times 2 + 2$	8
3rd term	$3 \times 3 + 2$	11
4th term	$3 \times 4 + 2$	14
5th term	$3 \times 5 + 2$	17

Generalisation

Variables can have single, multiple or unlimited values depending on their role in the equation.

$$a + 1 = 3$$

single

$$a = 2$$

$$a + b = 3$$

multiple

a	b
0	3
1	2
2	1
3	0

$$a + 1 = b$$

unlimited

a	b
0	1
1	2
2	3
3	4
4	5
...	...

English

Friday 24th April

Do you have a pet at home?

If you do, what do you have?

If not, what would your dream pet be?

If you're not a fan of pets, what would a family/friend's dream pet be?



Do any of you have or would like to have a more exotic pet?



Look at the following animals, what would the benefits and drawbacks of having them as a pet be?



- + Small
- + Quiet animal
- Prickly, can't be held
- Not great with small children- could bite them



- + Furry
- + Playful animal
- Sharp teeth, could bite you
- Large
- Would need a large space to run around in

What would the benefits and drawbacks of owning a dragon as a pet be?



- + Protective
- + Could fly you to places
- + Breathe fire when you go camping

- Could burn you
- Needs a large space to be kept
- Sharp claws might hurt people

Which text type looks at both sides of an argument?

A balanced argument!

- Starts with a discussion question
- An opening statement sharing the issue (not too much detail)
- Arguments for/against
- Conclusion
- Present tense
- Conjunctions
- Third person (narrative voice)
- Impersonal voice
- Formal tone
- Technical vocabulary



Example

Would a dragon make a good pet?

Dragons are **fierce** and **loyal** creatures who enjoy the company of others. These beasts could make **excellent** pets, for those individuals who are looking for a more **exotic** creature as a **companion**. **However**, there are some serious drawbacks for having such a strong, **wild** creature in your home. I hold the opinion that a dragon would make a superb pet for the following reasons.

On one hand, these **magnificent** beasts are **protective** by nature and would strive to protect you and your family at all costs: a personal bodyguard. **Moreover**, with huge **wing spans** and the ability to carry weighty loads, dragons could fly you and your family to any location around the world. This would help to **reduce** air pollution around the world and the need for heavily polluting aircraft. **In addition**, if you choose to go camping, a dragon could **instantly** provide fire to your campfire, allowing you to toast marshmallows.

Continues on next slide.

However, some people would argue that dragons are **very dangerous** pets to have and it would be **irresponsible** of you to have one. **Furthermore**, as dragons breathe fire, they could burn people easily- which is an **incredible** risk to have in your home. **In addition**, dragons are **colossal** creatures which require large spaces to be kept, a lot of people would not have the **appropriate** space to contain a dragon.

In conclusion, I believe that a dragon would only make a suitable pet for children older than 10 years old, who would have the **understanding** to care for a dragon and not irritate it and potentially get burnt. A dragon would not be a suitable pet for people with young children, other pets or people who have small gardens.

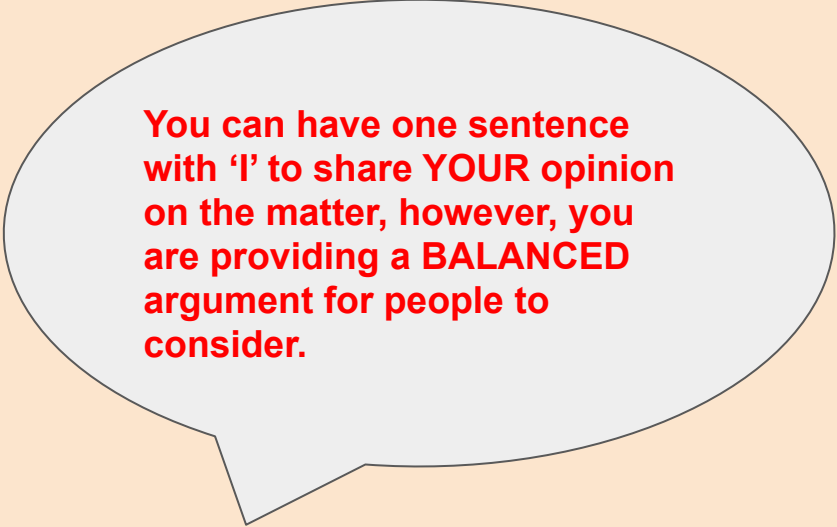
Technical/interesting vocabulary

Sentence openers

Can you see any more features?

Possible sentence openers:

- Some may argue
- On one hand
- On the other hand
- However
- In addition
- Moreover
- Furthermore
- One may argue



You can have one sentence with 'I' to share YOUR opinion on the matter, however, you are providing a BALANCED argument for people to consider.

LO: To write a balanced argument.

Would a dragon make a good pet?

- Create a balanced argument about this question
- Use the example slide and features of a balanced argument slide to help you
- DEVELOP your points: do not just list your reasons!
- Use conjunctions and advanced punctuation to help you create a well developed argument.

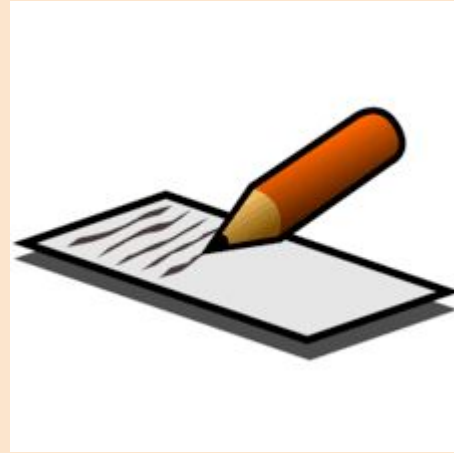


Mental Health

LO: I know it is important to take care of my mental health.

What is mental health?

Write a definition of what you think mental health is.



The World Health Organisation define mental health as:

“Mental health is a state of wellbeing in which the individual realises his or her own abilities, can cope with the normal stresses of life, can work productively and fruitfully and is able to make a contribution to his or her own community.”



What do you think of the definition?

Does anything surprise you?

WE ALL HAVE MENTAL HEALTH.



A balanced mental health is enjoying life and making the most of it and being able to cope when things become more difficult.

Some people may have an imbalance in their mental health where they require more support than others.

Having good mental health is about being balanced.



Look at the following scenarios. Decide if they are a challenge or support.

1. Being bullied.
2. Thinking about all my positive points e.g I am kind, thoughtful.
3. Losing a friend or family member. Spending time on a favourite activity.
4. Getting stressed about school work.
5. Laughing with friends and family.
6. Having an argument.
7. Talking to someone about your feelings.



Important:

Challenge, stress and anxiety are a normal part of life and alone, they don't signify a mental health problem.

Support that we put in place helps to 'outweigh' the challenges that we face.

If we face a 'BIG' challenge and don't have the support to match, what could happen to our mental health?

Can you think of some challenges you are facing right now?

- Not going to school and having a normal routine.
- Not seeing my family and friends regularly.
- Not being able to go and do things I enjoy e.g. go to the park, cinema.
- Listening and hearing about the disease and death in the world.



CHALLENGE

Can you think of support to outweigh the challenges?

- Still learning and keeping a routine Monday-Friday from Google Classroom and work I have from school.
- Video calling/messaging friends and family I miss.
- Finding new 'indoor' hobbies I can complete e.g. baking, reading, gardening, supporting around the house, board games, colouring.
- Getting some form of exercise daily- it improves your mood :)
- Limiting the amount of news I see/hear so I don't feel overwhelmed.



Reflection

- Some people with mental health problems feel ashamed and try to hide it, which can make the problem worse.
- Sometimes people with mental health problems are treated unfairly, not included or called names (stigma).
- Sometimes it's not easy to spot the clues that someone has a mental health problem.
- It is estimated that about a quarter of the population will have a mental health problem at some point in their lives.

Self assessment:

Read the purple and green statements.
How do you feel about them?

Piece 1	I know that it is important to take care of my mental health.				
	I understand that people can get problems with their mental health and that it is nothing to be ashamed of.				
Piece 2	I know how to take care of my mental health.				
	I can help myself and others when worried about a mental health problem.				
Piece 3	I understand that there are different stages of grief and that there are different types of loss that cause people to grieve.				
	I can recognise when I am feeling those emotions and have strategies to manage them.				

I don't get this at all

I'm getting there but need some help to understand

I get this and can give examples if you ask me

I missed this lesson

