

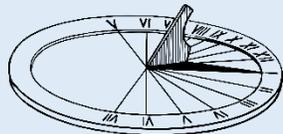
## Maths

- This week's theme on [White Rose Maths](#) is ratio. Have a look at the daily teaching videos and have a go at the activities.
- If you want to extend your learning even further check out the [BBC Bitesize daily activities](#)
- This week it is back to the garage on TT Rockstars – get your speed even quicker!
- Finally, check out [Oak Academy's online classroom](#) and maybe revise an area of maths that you aren't as confident with.

## Science

Sundials have been used since Ancient Egyptian times to tell the Time. But how do they work? Make a prediction based on your own knowledge of the sun & solar system. You can now test your prediction. Create your own sundial – it can be as fancy or as simple as you want it to be. There are loads of tutorials online, but here is a [simple one](#). Try and explain how the sundial works. Does it match your prediction?

Have a look on our Home Learning main page for Oliver's fantastic example of how to write a science experiment up



## Year 6

### Home Learning Project Week Beginning: 29.06.2020 Theme: Seasons/Weather

If you have any work that you are really proud of, email it to [helen.clarke@danebank.tameside.sch.uk](mailto:helen.clarke@danebank.tameside.sch.uk) to show one of the teachers!

## Music

Listen to [Vivaldi 4 seasons](#) whilst you are doing some other tasks from your home learning project.

Can you compose your own music to represent one of the seasons using

<https://www.virtualmusicalinstruments.com>

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## Geography & History

Sundials made us think of Ancient Egypt, so let's stay there! Go on [Nat Geo Kids](#) and research the Ancient Egyptian Gods. Are there any linked to the weather? Create a fact file for any that you find!

What about the weather in Egypt? How does it compare to the UK? Have a look at these [UK weather averages](#) – can you also find Egypt's weather averages and compare them?

## English

Have a go at some of the activities on BBC Bitesize daily:

<https://www.bbc.co.uk/bitesize/tags/zncsscw/year-6-and-p7-lessons/1>

Brush up on your writing skills with these great English lessons from the Oak Academy.

<https://classroom.thenational.academy/subjects-by-year/year-6/subjects/english>

And don't forget you can access lots of free e-books on [Oxford Owl](#).

## PSHCE

You may have heard that Marcus Rashford has convinced our Government to provide school meals throughout the summer holidays. Watch [this](#) to remind you of the story. What an amazing achievement for someone who is only 22! He used his celebrity status for good. You too have your own star qualities and things that make you unique. How could you use these to help someone? How might they help you when you go to high school?



Year 6  
**Home Learning Project – Maths**  
 Week Beginning: 29.06.2020

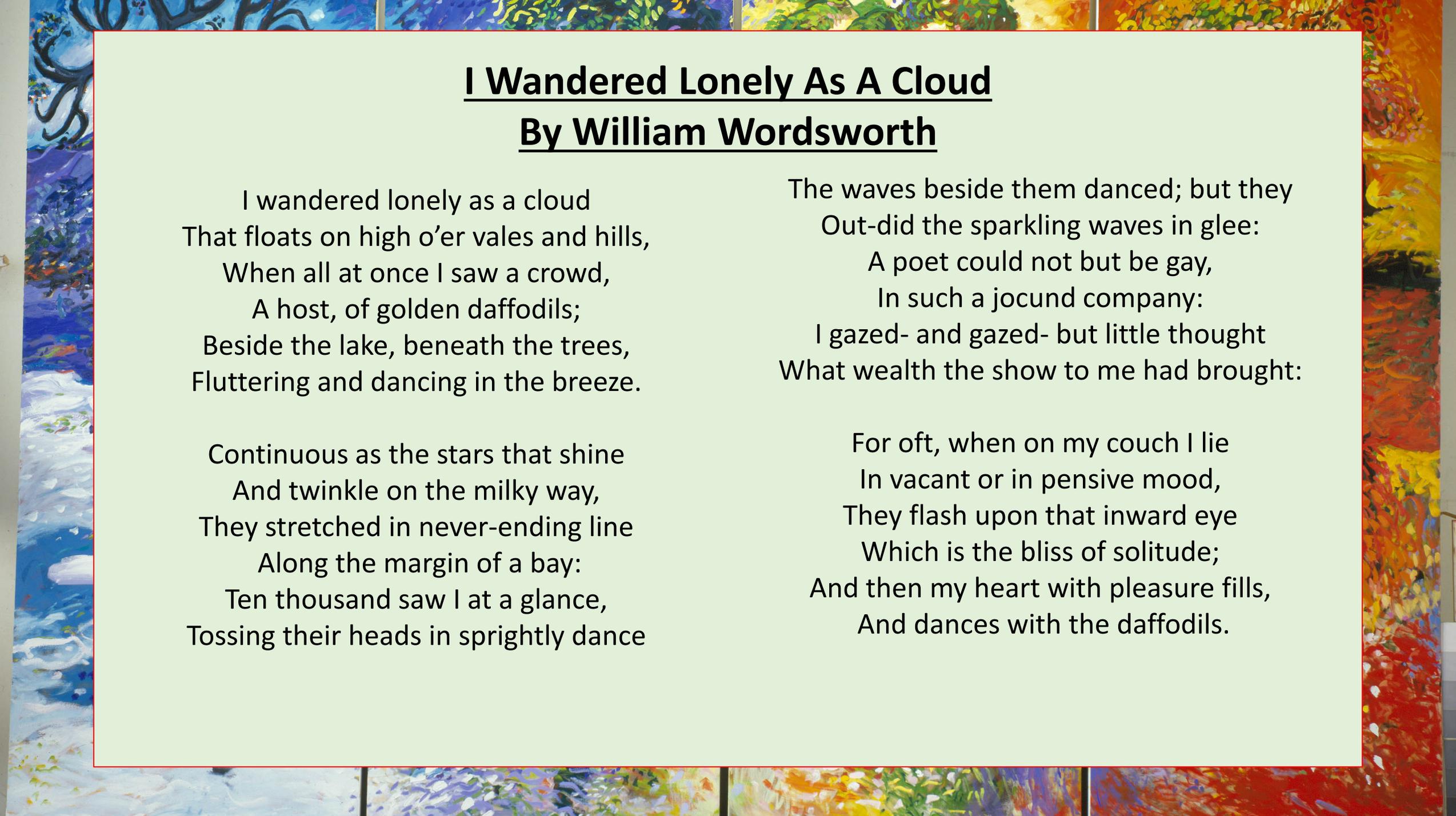
Monday	Tuesday	Wednesday	Thursday	Friday
See slide 5	See slide 5	See slide 6	See slide 6	Dexter is selling ice-creams. He uses this formula to work out the price.
<p>Rosie thinks of a number. She adds 7 and divides her answer by 2</p> <p>Teddy thinks of a number. He multiplies by 3 and subtracts 4</p> <p>Rosie and Teddy think of the same number. Rosie's answer is 9 What is Teddy's answer?</p> <p>Rosie and Teddy think of the same number again. This time, they both get the same answer.</p> <p>Use trial and improvement to find the number they were thinking of.</p>	<p>Eva spends 92p on yo-yos and sweets</p> <p>She buys <math>y</math> yo-yos costing 11p and <math>s</math> sweets costing 4p.</p> <p>Can you write an equation to represent what Eva has bought?</p> <p>How many yo-yos and sweets could Eva have bought?</p> <p>Can you write a similar word problem to describe this equation?</p> <div style="border: 1px solid blue; border-radius: 15px; padding: 10px; text-align: center; margin-top: 10px;"> <math display="block">74 = 15t + 2m</math> </div>	<ul style="list-style-type: none"> <li>Hannah is 8 years old</li> <li>Jack is 13 years old</li> <li>Grandma is <math>x + 12</math> years old</li> <li>The sum of their ages is 100</li> </ul> <p>Form and solve an equation to work out how old Grandma is.</p>	<p>Alex has some algebra expression cards.</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="display: flex; flex-direction: column; gap: 10px;"> <div style="border: 1px solid yellow; border-radius: 10px; padding: 5px; background-color: #fff9c4;"><math>y + 4</math></div> <div style="border: 1px solid yellow; border-radius: 10px; padding: 5px; background-color: #fff9c4;"><math>2y</math></div> <div style="border: 1px solid yellow; border-radius: 10px; padding: 5px; background-color: #fff9c4;"><math>3y - 1</math></div> </div> </div> <p>The mean of the cards is 19 Work out the value of each card.</p>	<p>Price = <math>\text{£}1.50s + \text{£}0.40t</math> Where <math>s</math> is the number of scoops and <math>t</math> is the number of toppings.</p> <p>Work out the cost of an ice-cream with 2 scoops and 3 toppings.</p> <p>Libby buys an ice-cream that costs <math>\text{£}2.30</math> How many scoops does she have? How many toppings does she have?</p> <hr/> <p>The length of a rectangle is <math>2x + 3</math>        The width of the same rectangle is <math>x - 2</math>        The perimeter is 17 cm.</p> <p>Find the area of the rectangle</p>

Year 6

## Home Learning Project – English

Week Beginning: 29.06.2020

Monday	Tuesday	Wednesday	Thursday	Friday
<a href="https://www.bbc.co.uk/bitesize/topics/zt62mnb/articles/z3mktv4">https://www.bbc.co.uk/bitesize/topics/zt62mnb/articles/z3mktv4</a>	<a href="https://www.bbc.co.uk/bitesize/topics/zvwxnb/articles/zpgiy4j">https://www.bbc.co.uk/bitesize/topics/zvwxnb/articles/zpgiy4j</a>	<a href="https://www.bbc.co.uk/bitesize/topics/zwwp8mn/articles/zps4pbk">https://www.bbc.co.uk/bitesize/topics/zwwp8mn/articles/zps4pbk</a>	<a href="https://www.bbc.co.uk/bitesize/topics/zwwp8mn/articles/zsrt4qt">https://www.bbc.co.uk/bitesize/topics/zwwp8mn/articles/zsrt4qt</a>	Can you write your own poem based on the weather? You could include some of these: <ul style="list-style-type: none"><li>expanded noun phrases (adjectives and prepositions are used to add information about a noun)</li><li>use relative clauses (they begin with who, which, where, when, whose, that e.g. The daffodils, which were beside the lake, swayed. The man who walked in the rain, held his umbrella)</li><li>modal verbs (e.g. might, should, will, must)</li><li>commas</li><li>synonyms (words that mean the same) to bring more meaning to your word choice (e.g. using vast, instead of big or large)</li></ul>
All work based on the poem "I Wandered Lonely as a Cloud" on slide 4				
<b>'I wandered'</b> What is the poet doing?  What two things does the poet say a cloud floats over?	What did the poet see a crowd of?  What was beside the 'crowd'?	Do you think that the poet saw many daffodils? Which words or phrases tell you this? Find and copy a word from the poem that means <b>when you are on your own</b> .	Underline the words that rhyme in the poem, then describe the poem's rhyming pattern.  Do you think that the poet enjoys looking at the daffodils? Explain how you know.	
Could you recite "I wandered lonely as a cloud"? Try and learn the poem off by heart and really think about the punctuation and using expression to add even more meaning to it. If you could record your recital we would love to see it!				



# I Wandered Lonely As A Cloud

## By William Wordsworth

I wandered lonely as a cloud  
That floats on high o'er vales and hills,  
When all at once I saw a crowd,  
A host, of golden daffodils;  
Beside the lake, beneath the trees,  
Fluttering and dancing in the breeze.

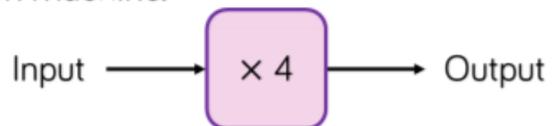
Continuous as the stars that shine  
And twinkle on the milky way,  
They stretched in never-ending line  
Along the margin of a bay:  
Ten thousand saw I at a glance,  
Tossing their heads in sprightly dance

The waves beside them danced; but they  
Out-did the sparkling waves in glee:  
A poet could not but be gay,  
In such a jocund company:  
I gazed- and gazed- but little thought  
What wealth the show to me had brought:

For oft, when on my couch I lie  
In vacant or in pensive mood,  
They flash upon that inward eye  
Which is the bliss of solitude;  
And then my heart with pleasure fills,  
And dances with the daffodils.

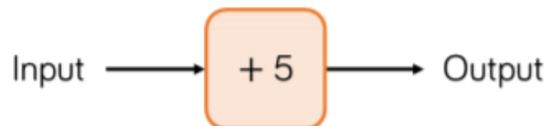
Monday

Here is a function machine.



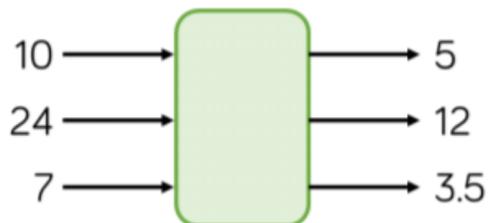
- What is the output if the input is 2?
- What is the output if the input is 7.2?
- What is the input if the output was 20?
- What is the input if the output was 22?

Complete the table for the function machine.



Input	5	5.8	10	-3	-8			
Output						9	169	0

Find the missing function.



Tuesday

Here is a function machine.



- What is the output if the input is 5?
- What is the input if the output is 19?
- What is the output if the input is 3.5?

Complete the table for the given function machine.



Input	1	2	3	4	5
Output					

- What patterns do you notice in the outputs?
- What is the input if 20 is the output? How did you work it out?

How can you write this two-step machine as a one-step machine?



Check your answer by inputting values.

Wednesday

If  $\star = 7$  and  $\heartsuit = 5$ , what is the value of:

$$\star + \heartsuit + \heartsuit$$

If  $a = 7$  and  $b = 5$  what is the value of:

$$a + b + b$$

What is the same and what is different about this question?

Substitute the following to work out the values of the expressions.

$$w = 3 \quad x = 5 \quad y = 2.5$$

- $w + 10$
- $w + x$
- $y - w$

Substitute the following to work out the values of the expressions.

$$w = 10 \quad x = \frac{1}{4} \quad y = 2.5$$

- $3y$
- $wx$
- $12 + 8.8w$
- $wy + 4x$

Thursday

Which of the following is a formula?

$$P = 2l + 2w$$

$$3d + 5$$

$$20 = 3x - 2$$

Explain why the other two are not formulae.

Eva uses the formula  $P = 2l + 2w$  to find the perimeter of rectangles.

Use this formula to find the perimeter of rectangles with the following lengths and widths.

- $l = 15, w = 4$
- $l = \frac{1}{4}, w = \frac{3}{8}$
- $l = w = 5.1$

This is the formula to work out the cost of a taxi.

$$C = 1.50 + 0.3m$$

$C$  = the cost of the journey in £

$m$  = number of miles travelled.

Work out the cost of a 12-mile taxi journey