Year 2 English Home Learning

Week beginning 29th June 2020

Introduction.

Each week you will receive a set of English tasks. You should aim to complete one each day. Spending about 30 minutes on reading, 45 minutes on writing and at least 20 minutes on grammar and spelling.

It is fine for you to ask for help from parents, siblings or your teacher through teams.

I have carefully read and thought about the book.

I have shared my opinions with others and listened to theirs.

I have read and answered the grammar questions carefully.

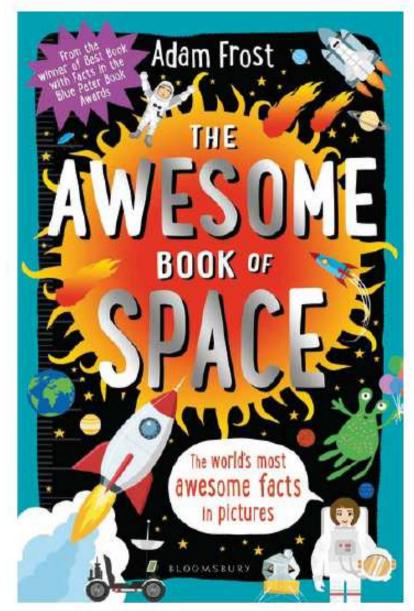
I have practised the spellings and handwriting activities.

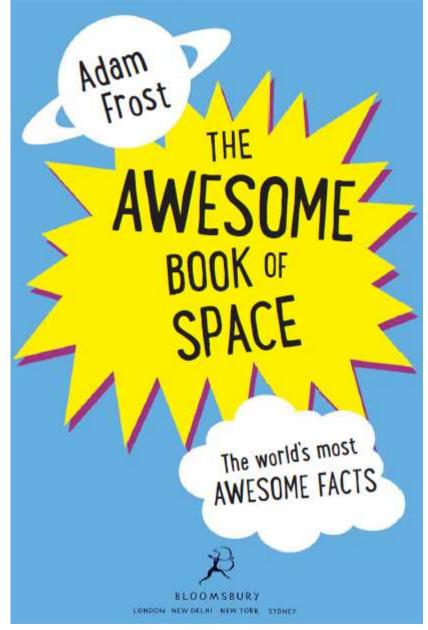
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Colour the stars when you think you have achieved this.

If you love reading and writing and want more of a challenge you can keep writing stories based on your own ideas or other books you have read.

The Awesome Book of Space by Adam Frost







This is Arthur the Alien. He's stuck on Earth and wants to go home. Fortunately he's come up with a cunning plan involving helium balloons.



Arthur weighs the same as an average nine-year-old (28.6 kg). He needs around 2,043 helium balloons to lift him into the sky*.

*An average helium balloon can lift 14 g. To work out how many helium balloons you'd need to lift YOU, divide your weight in GRAMS by 14.

UP IN THE AIR

What might happen to Arthur as he rises through the sky? Start at the bottom and read UP!

THERMOSPHERE 80-1.000 km
At 2,000°C, temperatures are hotter
than an oven here. But because the air is
so thin, Arthur would feel freezing cold.





MESOSPHERE 50-80 km
Arthur's balloons would probably have burst by now. The highest a helium balloon has ever reached is 53 km. It's also -90°C here. That's colder than the South Pole!

STRATOSPHERE 12-50 km
Air pressure would be so low
here that Arthur would need a
special pressure suit to stop the
fluids in his body from boiling.



Weather balloon

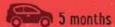


TROPOSPHERE O-12 km
The temperature would drop to about
-57°C. Arthur would also need to breathe
through an oxygen mask because oxygen
levels would fall from 21% to 4%.



What if you could give Arthur a lift and just DRIVE him into space? How long would it take to get to different places?"





The Moon





Venus

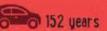




Mercury







The Sun











years

5,870 years -

(ANOTHER 24 PAGES)

The fastest manned rocket ever - Apollo 10 - went at 25,000 mph. At THAT speed, you'd reach Mars in about 8 months and Pluto in about 16 years.

Assuming you were going at 70 mph. And someone was driving the whole time. (No stops for a wee or buying crisps.)

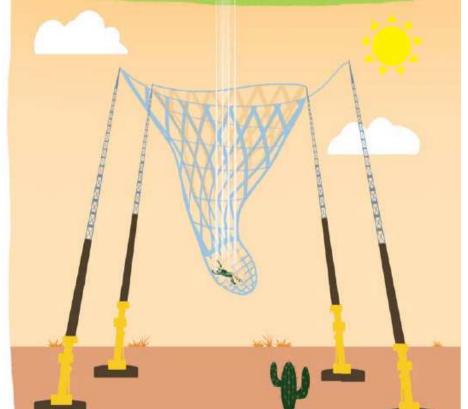
FREE FALL

Uh-ohl Arthur's balloons have burst. Luckily we've borrowed Luke Aikins giant net.

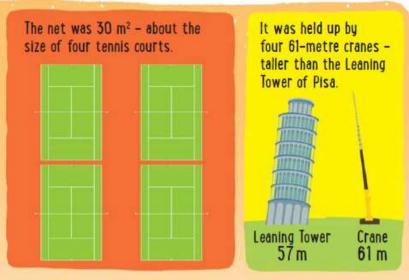


WHO IS LUKE AIKINS?

He's an American skydiver in 2016, he jumped from a plane 7.6 km up in the sky WITHOUT A PARACHUTE.



He landed in a huge net in the California desert - and suffered NO injuries.



As he fastest racehorse ever
Aikins Fastest toboggan ever speeds of Fastest roller coaster

Luke Aikins

Fastest 44 mph

84 mph

149 mph

150 mph.

The net had
to be deep 20 storeys
high - or Luke
Aikins would
have bounced
straight out
of it.

In 2012, Felix
Baumgartner fell
further (39 km) and
faster (844 mph breaking the sound
barrier). But he used a
giant parachute to slow
himself down. I guess
that makes him a...
lightweight?

THIS IS A BLAST!

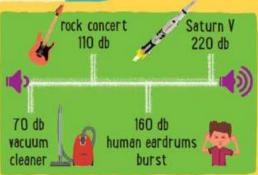
So you've decided to build a rocket in your back garden. What do you need to think about?

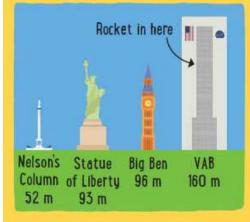


1. LOCATION

It would be good if your garden was near the Equator. The Earth spins fastest there, so rockets get an extra 'push' as they take off.

2. NOISE
It would help if
no one were living
next door. NASA's
Saturn V made one
of the loudest noises
ever recorded - 220 db.
This is loud enough to
melt concrete.





3. A LARGE SHED

You need to build (and store) your rocket somewhere. NASA's Vehicle Assembly Building (VAB) is the tallest single-story building in the world (160 m). It also contains the tallest doors (139 m).

SPACE SURVEY

People have strong views about space.
Which of these statements do YOU agree with?



53% of Americans say they'd like to go up to space. Would you enjoy a space vacation?



One in ten British people say they would be happy to go on a ONE-WAY trip to Mars. That means they'd NEVER get to come back. Would you?



54% of people say they believe there is intelligent life on other planets. Do you think aliens exist?

In a 2013 survey, 2.5% of Americans said they had been abducted or kidnapped by aliens*. Do you believe this is possible?



^{*}Some people think the people in this survey might not have been telling the truth...

PACK IT IN!

Time to pack. There are no washing machines in space, so if you went for a year, you'd have to take IHIS many pairs of pants.



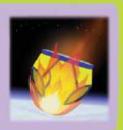


COSMIC PONG

Why only 52 pairs? According to cosmonauts on the Russian space station. Mir. they only changed their pants ONCE A WEEK. Science Officer Pettit of the International Space Station (or ISS) once wore the same pair of shorts for over THREE MONTHS.

PANTS ON FIRE

What happens to the dirty undies? They become SHOOTING STARS. On the ISS, they are dropped into an old supply craft and ejected. Then, they burn up in the Earth's atmosphere.



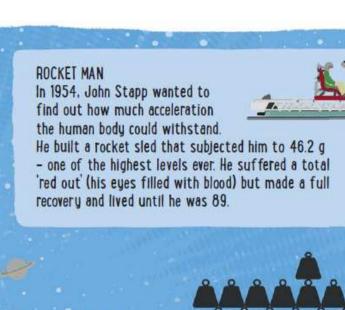


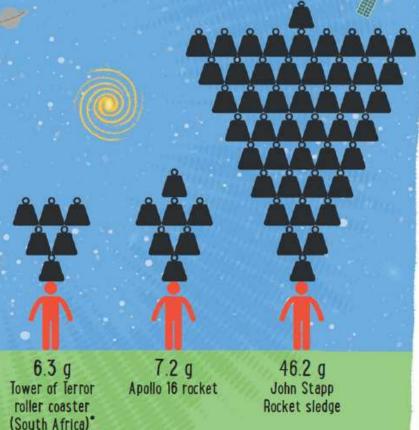
HOME GROWN

Science Officer Pettit of the ISS once grew tomatoes in his old pants. He said: 'I figured there might be a few nutrients in there.' When he'd tried before, the seeds had got too cold and died, but in his magic pants, the seeds sprouted in two days.



AWESOME G-FORCE When you take off in your rocket, you'll be subject to HUGE levels of G-force (which is measured in 'gs). But how much exactly? KEY DEFINITION G-force = amount of force or acceleration acting on your body (or anywhere else). 0 a 3 0 5.2 q 5 q Weightlessness Normal Space When most Olympic (like astronauts shuttle sledge gravitu people black out (or 'luge') in space) (like you're during feeling now) launch





You only feel 6.3 g for a few seconds, so the roller coaster is safe to ridel

Monday 29th June 2020

Year 2 -- Day 1- Reading

Reading

Read the first 6 pages of 'The Awesome Book of Space'.

- Write some of the new words you have learnt and talk about them with someone.
- Draw a picture and write 1 sentence about what this book is about.

Now read page 8 'This is a Blast'

• Make a list of all the things you would need to gather to build a rocket. Now write a list about other things you need to think about before making it.

Tuesday 30th June 2020

Year 2 - Day 2- Writing

Writing

Write a list of facts that you have learnt about space.

Put a next to the ones you fine most interesting. Share them with someone in your household.

Put a next to the facts others find the most interesting.

Extension: Can you add diagrams or drawings to the facts?

Wednesday 1st July 2020

Year 2 - Day 3- Grammar

Grammar

Write questions using the following words:

What Why Which Who Where When

Example: What was the fastest rocket ever built called?

Extension: Can you fine the answers to the questions?

Thursday & July 2020	Thursday	2 nd	July	2020
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Year 2 - Day 4- Spelling

Spelling

Practise each word by rewriting ot 3 times. Say it aloud as you write it.

Space Tower Speed Believe International

Can you make the words using something different? Try using paint, play-doh or leaves.

Friday 3rd July 2020

Year 2 - Day 5- Handwriting

Handwriting

Copy each of the spelling words five times in your neatest handwriting.

Space

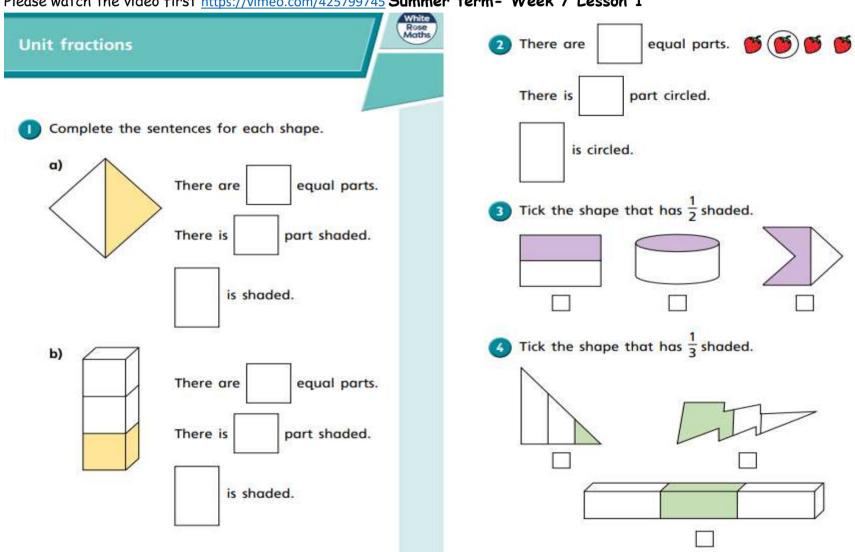
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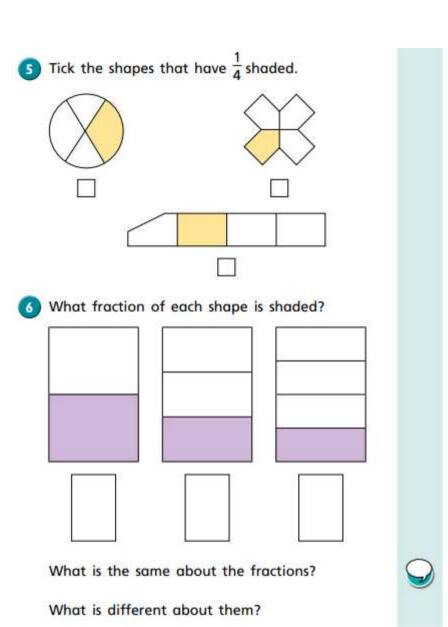
Year 2 Maths Home learning

This week's lessons and activities can be found on www.whiterosemaths.com in the folder Summer term- Week 7 we are aware these are different dates, but this is the folder we are working on this week.

Monday 29th June 2020 Lesson 1 - Unit fractions

Please watch the video first https://vimeo.com/425799745 Summer term- Week 7 Lesson 1





7 Here are some fractions.

 1/2
 2/3
 3/4
 1/4
 1/3

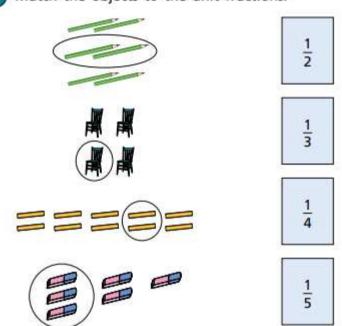
 Tick all the unit fractions.

 Compare answers with a partner.

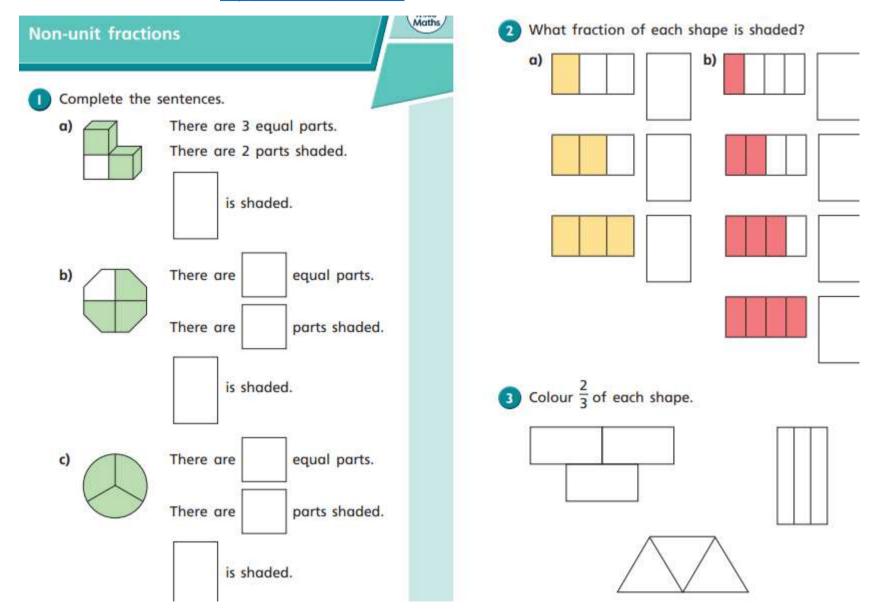
 Can you think of any more unit fractions?

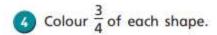
 8 Match the objects to the unit fractions.

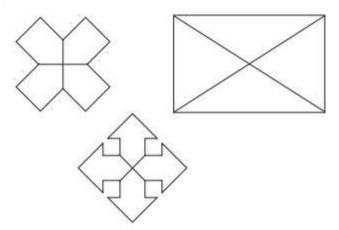
 1/2



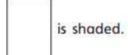
Please watch the video first https://vimeo.com/425799860 Summer term- Week 7 Lesson 2



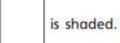




- A shape has 3 equal parts.
 - a) What fraction is shaded if there are 2 parts shaded?



b) What fraction is shaded if there are 3 parts shaded?





	-						
1	73	Write	the	fractions	in	the	table
ı		AALITE	LITE	II UCUOIIS	11.1	LITE	LUDIC

Т	200
н	1
н	2
п	2
н	2

I	3	
I	4	
١		

1
2

Unit fractions	Non-unit fractions		

Fill in the boxes to give a unit fraction and a non-unit fraction.

unit fraction	non-unit fraction	
-		5

Work with a partner.

Find other examples of unit fractions and non-unit fractions.

Write five examples of each.

unit fractions:

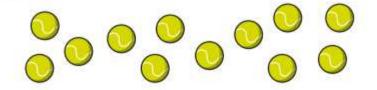
non-unit fractions:

Please watch the video first https://vimeo.com/425799938 Summer term- Week 7 Lesson 3

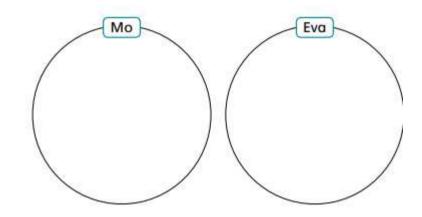
Find a half Here are 6 counters. a) Share the counters into 2 equal groups. Group 1 Group 2 b) Complete the sentences. There are 6 counters. The counters are shared equally between groups. There are counters in each group. $\frac{1}{2}$ of 6 is equal to

- Use counters.
 - a) Can you share 10 counters into 2 equal groups?
 - b) Can you share 11 counters
 into 2 equal groups?

 Talk about it with a partner.
- Mo and Eva have 12 tennis balls.

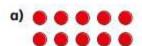


Share the tennis balls equally between Mo and Eva.



		1		
4	Find	5 of	each	number





$$\frac{1}{2}$$
 of 10 =



$$\frac{1}{2}$$
 of 16 =



$$\frac{1}{2}$$
 of 20 =

Ron has run 20 m.



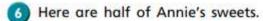




Rosie has run half that distance.

- a) Draw an arrow on the running track to show where Rosie is.
- a) How far has Rosie run?















How many sweets does Annie have in total?

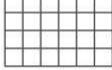


Compare answers with a partner.

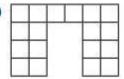
Colour $\frac{1}{2}$ of each shape.

Use the shapes to help you complete the number sentences.





b)



Complete the number sentences.

$$\frac{1}{2}$$
 of $= 10$

$$\frac{1}{2}$$
 of $= 7$

c) What is $\frac{1}{4}$ of 8?

How did you work this out?

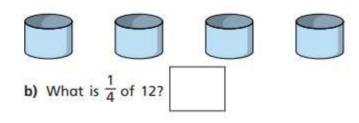
Please watch the video first https://vimeo.com/425800005 Summer term- Week 7 Lesson 4

Find a quarter Here are 8 counters. a) Share the counters equally into 4 groups. b) Complete the sentences. counters are shared equally between groups. There are counters in each group.

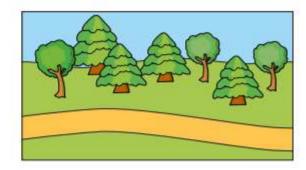
There are 12 pencils.



a) Share them equally between 4 pencil pots.

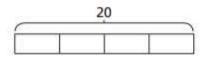


Tom and Dora are walking along a path. By midday Dora has walked halfway. Tom has walked a quarter of the way.



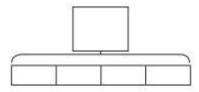
- a) Draw an arrow to show where Dora is.
- b) Draw an arrow to show where Tom is.

- Use the bar models to help you work out a quarter.
 - a) Work out $\frac{1}{4}$ of 20

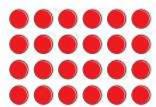


$$\frac{1}{4}$$
 of 20 =

b) Work out $\frac{1}{4}$ of 16



Show that $\frac{1}{4}$ of 24 is 6



6



I can find a quarter by halving a number and halving again.

Use this method to find $\frac{1}{4}$ of 12



$$\frac{1}{4}$$
 of 12 =

Complete the table.

Number	$\frac{1}{2}$ of Number	$\frac{1}{4}$ of Number
8		
20		
24		ļ

8 $\frac{1}{4}$ of a number is 7

What is the number?









The number is

Watch the video https://whiterosemaths.com/homelearning/year-2/ Friday Challenge

Friday Maths Challenge



This week, BBC Bitesize have partnered with Premier League Primary Stars to bring you some football themed activities, videos and quizzes!

https://www.bbc.co.uk/bitesize/articles/zsvgn9q