You do not need to print off any of the challenges. You can complete them on a piece of paper and take a picture of your work to upload it to Twitter or Facebook.

Week 7

Space

Reading

Apollo 13



Task 1: Complete the attached reading activity and questions.

Task 2: Log into Active Learn and read one of the books assigned to you and answer the questions.

Writing

Space Story



Narrative - Create a story about travelling to space. Think about how exciting that would be!! You could build it up gradually including how you will prepare, leaving your family, the launch and then what is actually like in space!

Spelling

Using the suffix 'ive'

Task 1: Learn these spellings and their meaning.

- 1. attractive
- creative
- addictive
- assertive
- 5. abusive
- 6. co-operative
- exhaustive
- appreciative
- 9. offensive
- 10. expressive

SPAG

Dashes for parenthesis

Task 1: Using dashes for parenthesis complete the attached activities.
Remember to add in the additional information inside the dashes.

Task 2: Spot the spelling mistake! Complete the attached activity and correct the wrong spellings.

Maths

This week we are focussing on addition and subtraction.

Lets remember our column methods and complete the word problems.





Look out for our help videos on Seesaw for calculation reminders and problem solving!!

> Task 1: Complete the set calculations.

Task 2: Complete the attached word problems.

Task 3: Code breaker challenge.



Remember TTRS too!

D&T

Lets get designing!

Your challenge is to design your own planet.

Think about the following:

- name (origin of the name)
- position in the solar system
- size
- distance away from Earth
- Is there life on it?

Complete the attached activity and have fun!



Wellbeing

Goal setting.

It is important to give yourself some motivation by setting personal goals.

It gives you a sense of purpose that can improve your confidence and build your self-esteem.



Set yourself between 1-3 goals that you feel you would like to achieve this week.

They can be as simple or difficult as you like.

Consider the following:

- what it is
- how you will achieve it
- if you need someone to support you
- how long it will take to achieve
- how you will feel when it is accomplished

Reading

Apollo 13

The mission of NASA's Apollo 13 was to reach the moon. The mission failed, but it taught NASA and the world important lessons about team work and never giving up.

Blast-Off

On April 11th 1970, three astronauts climbed aboard the Apollo 13, blasting off from the Kennedy Space Centre in Florida, USA. The crew included Commander James Lovell and pilots Fred Haise and Jack Swigert. It was Haise and Swigert's first mission to the moon, whereas the



experienced Lovell had been once before.

The mission suffered bad luck from the beginning. One of the original pilots was replaced by Swigert just two days before blast-off. This was because the original pilot had been exposed to a virus. NASA decided it was too big a risk for a virus to go into space, so Swigert had only a couple of days to be ready for the mission.

The Apollo 13 was made up of two different spacecraft, the Odyssey and the Aquarius. They were connected by a tunnel. Odyssey was the spacecraft with the crew's living area and the main controls. The Aquarius was smaller. It was designed for two crew members to land on the moon.

At first, the Apollo 13 mission was progressing perfectly. Their mission was to explore the surface of the moon by taking photographs and getting samples of the moon's surface. The crew were also going to film videos for television.

An Explosion

On the evening of 13th April, disaster hit the Apollo 13. An explosion rocked the spacecraft. Swigert reported the explosion to mission control in Houston,

Apollo 13

exclaiming, "Houston, we've had a problem here." An oxygen tank had exploded and caused serious damage. From the window, the astronauts could see gas escaping into the atmosphere. Worryingly, this gas was oxygen. There is no oxygen in space so without the oxygen tanks, the crew could not survive.



The explosion changed Apollo 13's story from a research mission into a rescue

mission. The crew were stranded in space with a damaged spacecraft. It would take an immense amount of teamwork and resilience to get the crew safely home.

The crew moved into Aquarius, which became a lifeboat for them. The Odyssey was shut down to try and conserve as much power as possible for the journey home to Earth.

To return home, the crew had to run the spacecraft for just enough time to direct it to Earth. The timing had been carefully calculated by both mission control and the crew. If they were even a few seconds wrong, Apollo 13 would miss the Earth by thousands of miles. Everyone was relieved when the plan worked.

Difficult Conditions Onboard

Life in space was very difficult for the crew. All power was turned off, except for essential systems. It was extremely cold and caused condensation. Water and food were strictly rationed, as some food became inedible with the cold. It was so cramped it was difficult for the crew to sleep. The astronauts were weakened by these conditions, even developing kidney infections. The crew were anxious, but felt supported by mission control, who were working hard to rescue them.

Soon there was another problem. Too much carbon dioxide had built up. The crew of Apollo 13 had to build a special filter using only the contents of the Aquarius. Over the radio, mission control helped the crew build the filter using plastic bags, cardboard and a sock to fix the problem.

To re-enter the Earth's atmosphere, the crew moved back into Odyssey. They hoped there was enough power. As the crew detached the Odyssey and floated

back down to Earth, they saw the damage from the explosion. They had been extremely fortunate to survive the damage.

Returning Home

On 17^{th} April, the Apollo 13 crew splashed into the Pacific Ocean, near to Samoa. Millions of people around the world watched the Apollo 13's journey and saw the crew land on television. The world celebrated the crew's safe return.

Apollo 13 is regarded as a 'successful failure' for NASA. The mission failed to reach the moon, but the crew returned home safely. Apollo 13 showed the world that, by working together, even when miles apart, any problem can be solved.



Apollo 13 Questions 1. Where was the Apollo 13 launched from? Tick one. Conceptible Control Washington Space Centre Washington Space Centre

	\circ	Kennedy Space Centre
	\circ	Houston Space Centre
	\circ	Washington Space Centre
	0	New York Space Centre
2.	Wh	ich members of the Apollo 13 crew had never been to the moon before? Tick two .
	0	Jack Swigert
	0	James Lovell
	\circ	Fred Haise
3.	Wh	y did the Apollo 13 mission start with bad luck?
	_	
	_	
4.		k at the section titled An Explosion. Find and copy one word that means to not give up
	and	l keep going.
	_	
5	Wh	at did Jack Swigert say at the time of the explosion?
٠.	****	at the suck swiger say at the time of the explosion:
	_	

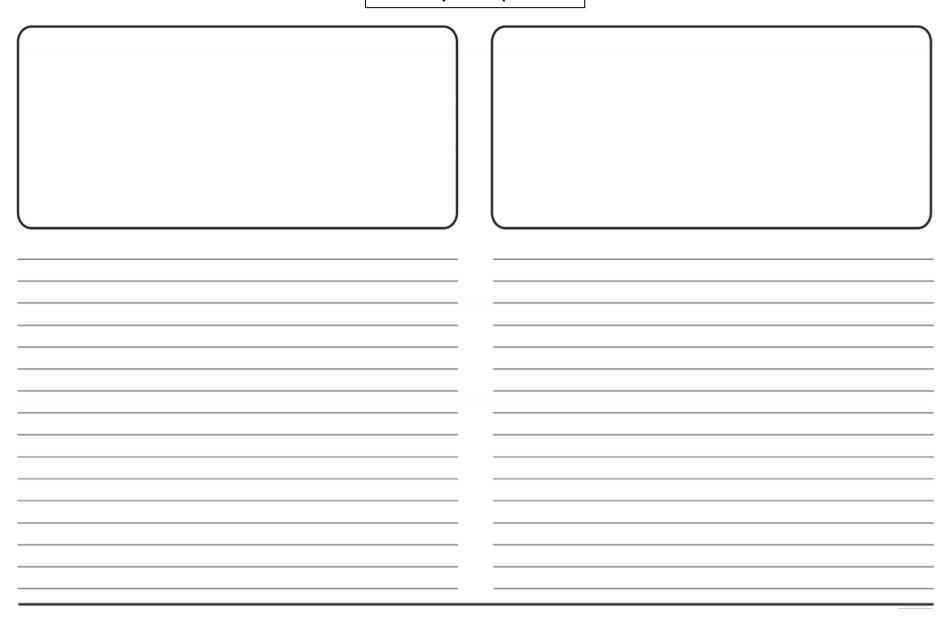
	How do you think the crew might have felt when they saw oxygen escaping into space from their window? Explain your answer.
	,
	Explain why the conditions onboard the Aquarius were very difficult for the crew.
	Without mission control's teamwork, the crew of the Odyssey would never have made it
•	home.
	Do you agree with this statement? Explain your answer.

Writing

Comic Strip

You could write it as a full story or you could write it as a comic strip. It is up to you!

Story template



Descriptive Settings: Spaceship

/hat Can I Describe?	How Can I Describe It?	What Can It Do?	Examples of Effective Phrases
airlock	advanced	accelerate	we swiftly advanced towards the module
aliens	authentic	appear	strijetg daranesa terra as the medale
asteroid	capable	approach	
astronauts	experimental	board	A merry surge of static triggered the
atmosphere	futuristic	carry	shuttle's alarm
buttons	gigantic	circle	
capsule	interstellar	collide	The mysterious being had a name: Teletron.
craft	lunar	equip	The migsterious being had a hame. Teletron.
excursion module	majestic	hover	
levers	manned	hurtle	majestic launch in a blaze of white light
mothership	mysterious	illuminate	
noise	ovoid	land	
orb	planetary	launch	a series of mechanical levers and
orbit	powerful	move	complex switches
robot	scientific	orbit	
spacesuit	skilled	pass	hurtled towards our futuristic mothership.
speed	spherical	pilot	NAME OF THE OWNER OW
teleporter	spinning	propel	
vessel	strange	send	THE RESERVE OF THE PARTY OF THE
view	vast	travel	
wormhole	winged	venture	
	100000 1 0000	twinkl visit twinkl.com	CHECK TO

Journey into Space

How Could Space Explorers Feel?

amazed, anxious, apprehensive, astounded, awestruck, delighted, delirious, determined, enamoured, fearful, flabbergasted, intimidated, panic-stricken, petrified, sickly, uneasy

What Might Extraterrestrial Life Be Like?

advanced, amicable, bizarre, disembodied, exogenous, extrinsic, fantastical, hostile, humanoid, intelligent, malevolent, otherworldly, phantasmal, primitive, sentient, telepathic, unfamiliar

Descriptive Words

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airless, arid, crowded, desolate, dimpled, distant, doomed, fiery, frozen, gaseous, habitable, hostile, inhabited, lifeless, mountainous, orbiting, plundered, revolving, rocky, spinning, unexplored

What Could a Spaceship Be like Inside?

cramped, derelict, electronic, futuristic, gigantic, manned, modular, strange, unmanned

How Might a Spaceship Move?

ascend, descend, forge, gravitationally, lightspeed, meander, weave, zip

How Could the Universe Be Described?

alternative, boundless, chaotic, cosmic, expansive, fantastic, harmonious, hostile, incomprehensible, infinite, limitless, mysterious, observable, orderly, parallel, phenomenal, starry, vast



What Might Clothing Be Like?

armoured, bulky, cumbersome, custom, heavy, insulated, lightweight, pressurised, protective, sealed, special, thermal, ventilated, white

Advice on the structure of your story.

Paragraph 1 = this paragraph could be about setting the scene introduce your characters and their plan/ reasons for going into space think about /training/ going to research something/feelings about the idea

Paragraph 2 = this could be the week or day before launch include final checks and feelings emotions...

Paragraph 3 = THE LAUNCH what happened, how long it takes what it feels like/arriving in space/what you can see

Paragraph 4 = what you have discovered there are you staying or returning home? It is up to you but think about how your story will end.

Spellings

<u>Task</u> = practice using the suffix 'ive'

Learn these spellings and their meaning.

- 1. attractive
- 2.creative
- 3.addictive
- 4.assertive
- 5.abusive
- 6.co-operative
- 7. exhaustive
- 8. appreciative
- 9. offensive
- 10. expressive

Use them in a sentence.



Sun Saturn
Mercury Uranus
Venus Neptune
Earth Pluto
Mars star
Jupiter planets

SPAG Inserting dashes

1. Put the dashes into the following sentences.
 a. I woke up this morning to see that it had been snowing overnight my car was completely covered.
b. My cat who is eighteen years old sleeps for up to twenty hours a day.
c. Jake did an amazing audition for the show he really impressed the panel.
d. Priya Anand the only girl on the team scored the winning goal.
2. Add your own parenthesis to the following sentences.
a. Sam Taylor – – won the skipping race
b. My dog can run very quickly –
c. The car – – smashed into the fence
d. The hedgehog curled into a ball –
 Add your own parenthesis to the following sentences. For these sentences, decide for yourself where the best place in the sentence to place the parenthesis is. (It might be within the sentence or at the end.)
a. My guinea pig managed to squeeze out of a hole in his run and to escape.
b. I am so tired.
c. A new supermarket has opened in our town.
d. Buckingham Palace was the first place we visited when we arrived in London.
· ·

*

The Dramatic Dash

James Bond Style

To use dashes to show parenthesis.



Look at the sentences below. Join each sentence to make a dramatic parenthesis.

Start of the Sentence

His Aston Martin pulled into the car park –

James Bond scanned the room -

Miss Moneypenny smiled across the room –

He looked at his watch -

Dramatic Parenthesis

his enemy was trying to disguise himself.

this was the secret signal he had been waiting for.

he had no idea of the danger he faced.

would he need to use the secret gadget to get him out of danger?

Write the sentences below. Remember when the parenthesis is completely removed, the sentence still needs to be grammatically correct.

Example: It was a long wait – perhaps the longest of his life.

Maths

Level 1

581 + 238 ——	672 - 339 	760 - 325 	902 + 378 ——
- 609 - 526 	+ 326 + 419 	+ 487 + 133 	+ 569 - 650

Solve the following problems:

- There are 167 books in one classroom and 392 books in the other.
 How many books are there altogether in both classrooms?
- Jay has a collection of 263 football cards. His brother has 189.
 How many more football cards does Jay have?
- A family drive 208 miles from London to Manchester, and then 213 miles on to Glasgow.
 How far did they travel altogether?
- 4) A cricket team score 456 in the first innings and 249 in the second innings.

 How many runs did they score altogether?
- 5) Jenny has £5.67. She spends £2.85 on a present for her brother. How much money does she have left?



Can you find the mystery code before time runs out?

Find the missing digits in these calculations. Each missing digit represents a letter of the alphabet. Once you have completed all of the calculations, complete the anagram to reveal the code words.

Don't forget: a 4 in the hundreds column means 400, not 4!

200	100	7	30	90	4	80	400	3	40
w	G	E	В	S	Y	В	R	Α	T

The missing number is 100. 100 is the letter 'G'.

Word One:

Level 2

 On Sunday I spent 144 minutes on my art project and 45 minutes on my numeracy homework. On Thursday evening I spent a total of 111 minutes on my homework. What is the difference between the amount of homework I did on Sunday and Thursday evening?



2. Dad drives a truck. Last week he drove 267 miles on Monday, 186 miles on Tuesday and 198 on Wednesday. This week Dad drove 282 miles in total. What is the difference in mileage between this week and last week?



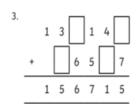
9 8

5 3

5.

Level 3

8 8 5 3 + 5 6 4 9 7 7 3 0 1



4. 4 8 2 8 + 1 7 6 4 4 2 6 2 4 2 7 0 5 0 + 7 5 9 7 9 0 3 4 7 6. 5 4 3 5 + 9 8 2 6 6 2 7 6 7

There are 11485 picture books in Blibrary. On Monday 2333 were
en out and on Tuesday 3212 are en out. How many picture books left?
There were 9852 pieces of sports nipment. Sadly, 2329 pieces were ned in a flood. The PTA bought 50 more pieces. w many pieces of sports nipment are there?
In a lorry, there were 48512 ces of fruit. 21235 were bananas 1 13621 were oranges. How many oles were there in the lorry?
5 W iii

Solar System Code Breaker

Amazing Fact

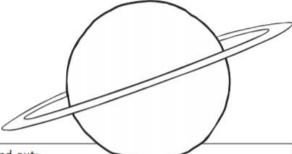
The sun is so big that it could fit approximately 1.3 million Earths inside it (if they were squashed up).

Challenge

Crack the codes on the following pages using the table below to work out the solar system words.

α	b	С	d	e	f	g	h	i	j	k	ι	m
1	2	3	4	5	6	7	8	9	10	11	12	13

n	0	р	q	r	s	t	u	v	w	×	y	z
14	15	16	17	18	19	20	21	22	23	24	25	26



You could also try to find out:

- what the sun would look like from the other planets in our Solar System;
- · what the biggest planet is in our Solar System;
- · how far away Earth is from the Sun.

Solar System Code Breaker

Word:

$$6 + 7 =$$

$$7 + 7 =$$

$$26 - 8 =$$

Word: _____

Design your own planet.

Design a Planet You have discovered a brand new planet! Complete an astronaut report to send to Mission Control about what you have found. Name of Planet:_____ Surface **Key Facts** Materials: Colour:____ Size: Number of moons:___ Signs of life (water, oxygen): Inhabitants (People Who Live There) Other information:____

Wellbeing

GOAL SETTING

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