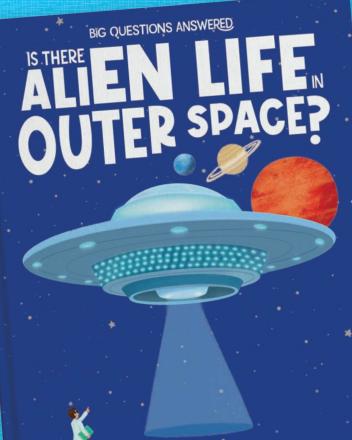
BIG QUESTIONS ANSWERED

YOUNG ASTROBIOLOGISTS' ACTIVITY DACIN



Full of fun and exciting activities to accompany this book!

DISCOVER THE SCIENCE BEHIND ASTROBIOLOGY

CONTENTS:

Planet Facts: Fact File	3
Outer Space Mix-Up: Match Up	4
Spacecraft Adventure: Comic Strip	5
Lost in Outer Space: Maze	6
A Trip into Outer Space: Creative Drawing	7
Our Place in Space: Fill in the Blanks	8
Words Lost in Outer Space: Word Search	9
Diary Entry: Creative Writing	10
Create Your Own Alien: Creative Drawing	11
Design Your Own Space Base: Creative Drawing	13
A Message From Space: Decoding Challenge	14
Undercover UFO: Spot the Difference	15
Into the Unknown: Reflective Writing	16
Write Your Own Astrobiology Story: Creative Writing	17
More Fun Activities: Coloring Sheets and More!	18
Activity Answers	29

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For reference to the Teachers' & Parents' Resources, this goes with "Our Solar System: Scene I".



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PLANET FACTS

Choose a planet – any you like – and see what amazing things you can find out about it! Draw your chosen planet, color it in, and fill in all of the information below.

Draw your planet in here!

his planet is called
low big is this planet?
Does this planet have an atmosphere?
his planet islight-years from Earth.
his planet orbits a star called
xtra cool facts:
Why not print this sheet off multiple times to create a planet booklet full of lots of different planets!
2



For reference to the Teachers' & Parents' Resources, this goes with "The Invention of Telescopes: Scene 2".



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OUTER SPACE MIX-UP

Looking at things through a telescope helps scientists see things that are really far away. Can you work out what each zoomed-in picture actually is? Draw a line to match the picture with the correct name.

/ am THE MOON			l am A SHOOTING STAR		
0	0	0	0		



Fact: I'm sometimes called the "Red Planet".



Fact: I float around the Earth.



Fact: I'm a floating home for astronauts working in space.



Fact: I fly super quickly through the sky.



For reference to the Teachers' & Parents' Resources, this goes with "Modern-Day Astrobiology: Scene 3".



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SPACECRAFT ADVENTURE

Below are some sentences. Draw a picture to match each sentence and create your own comic.

An astrobiologist adds the 3... 2... 1... LIFTOFF! The rocket Oh no! There are so many asteroids finishing touches to their brandshoots off into space. An exciting in this part of space – the rocket new rocket. Now it's ready to fly! adventure is about to begin. must be careful to fly around them. Finally, the rocket reaches its The rover searches the alien planet. It stumbles upon a group of destination - a new planet! A It travels through deep valleys and aliens! The rover takes photos to rover is unloaded to explore. over high mountains until... send back to scientists on Earth. **KEY:** ROCKET **ASTEROID** ROVER



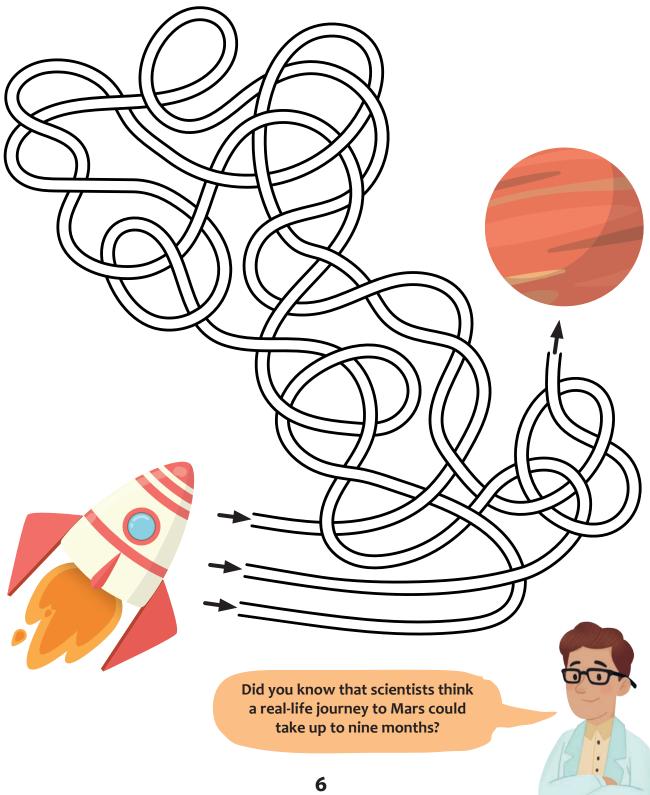
For reference to the Teachers' & Parents' Resources, this goes with "Exploring Mars: Scene 4".



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LOST IN OUTER SPACE

Oh no! This rocket has got lost in outer space. Can you help the rocket complete the maze and reach Mars?





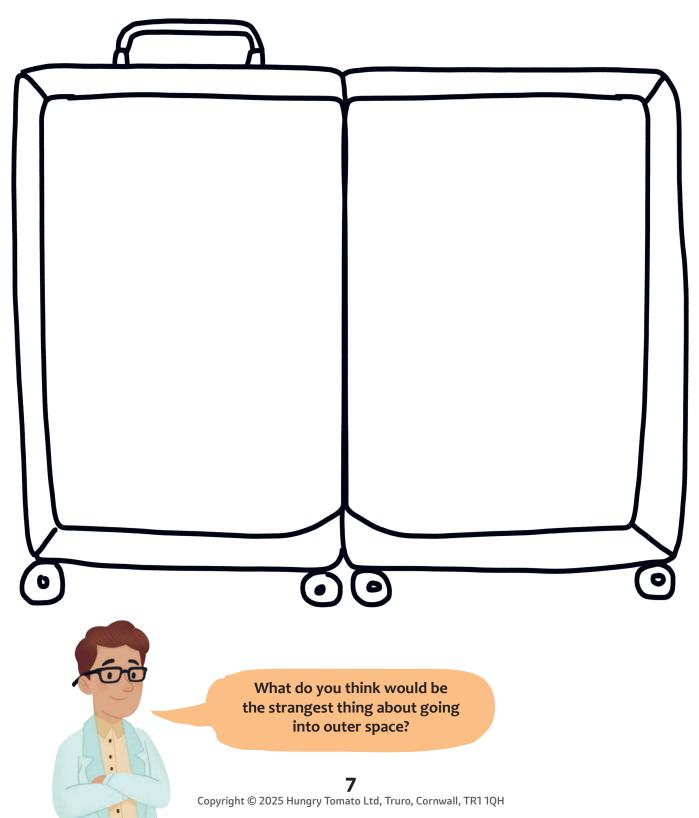
For reference to the Teachers' & Parents' Resources, this goes with "Surviving on Earth: Scene 5".



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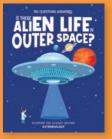
A TRIP INTO OUTER SPACE

Imagine you've been chosen to go on a trip into outer space to help scientists learn more about it. What would you pack in your suitcase? Draw the items in, but choose carefully – you can only take 10 things with you!





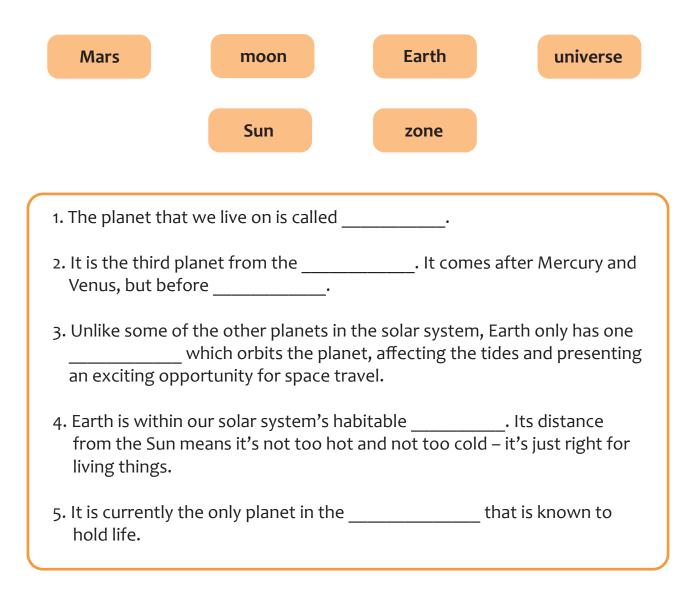
For reference to the Teachers' & Parents' Resources, this goes with "The Habitable Zone: Scene 6".



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OUR PLACE IN SPACE

Can you use the words below to fill in the blanks and uncover some out-of-this-world facts? Each answer can only be used once.





For reference to the Teachers' & Parents' Resources, this goes with "The Search Is On: Scene 7".



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WORDS LOST IN OUTER SPACE

Find and circle the words listed below, in the grid. Words can be found in any direction (including diagonals) and can overlap each other.

Е	U	F	0	Ν	V	U	F	z	U	R	М	т	Т	В	D	С	Н	Е
С	Ν	М	κ	С	G	R	w	Α	S	Т	Α	R	S	Е	J	М	Х	Q
Е	Y	W	F	R	Α	С	S	G	L	С	N	Y	V	Y	Т	Ρ	W	Ν
х	М	J	I	S	Z	R	Ρ	S	I	Α	Е	J	Q	R	U	W	Ζ	J
S	R	0	М	Η	Α	Ζ	V	J	۷	S	С	Α	W	W	W	Н	К	Н
Ν	Х	Х	J	М	Т	R	к	S	Ρ	W	I	S	I	М	Z	1	L	1
0	V	F	I	L	0	к	С	Ì	Т	R	x	Т	G	R	М	Н	К	х
Ζ	J	F	R	Y	R	0	С	κ	Е	Т	κ	R	R	0	С	Т	Н	J
Η	F	С	J	S	Ζ	Т	Ν	С	L	Ν	U	0	Ζ	F	U	Т	Ν	0
Т	Α	Q	U	Η	Z	Κ	Α	A	Е	Е	D	Ν	Q	V	н	G	I	Т
U	0	в	W	R	W	Ρ	J	S	S	S	в	Α	R	Х	I	Ρ	0	F
W	к	Y	ĸ	F	S	S	W	Т	С	1	x	U	М	Е	D	0	Е	V
I	G	ĸ	Μ	R	Т	Е	V	Α	0	С	W	Т	κ	K	S	L	J	D
В	С	V	E	Е	S	Q	н	L	Ρ	U	S	G	К	Η	Ρ	U	L	U
0	Ν	т	Ν	R	Ρ	S	Z	L	Е	L	S	J	Е	0	М	М	Е	D
Α	U	Α	Е	Α	Α	Е	W	Е	0	Ρ	D	С	Т	Y	G	Q	Α	R
0	L	V	V	F	М	L	U	Ν	Х	в	V	С	М	Ζ	М	0	R	L
Ρ	1	Ζ	D	М	Т	В	D	S	W	U	L	I	Е	Т	В	F	Т	Ζ
Ν	U	0	s	Q	U	Q	х	Х	R	W	S	D	R	Н	F	S	Н	F
V	М	Z	Q	I	Н	Q	L	U	Ν	R	Y	G	J	K	Ρ	R	G	т
	C E X S N O Z H T U W I B O A O P N	C N E Y X M S R V Z J F T A V Z F A U K G B C N A U O L P I N U	 C N M Y W M J R Q X X<	C N M K E Y W F X M J I S R O M N X X J N X X J N X X J N X X J Q V F I Z J F R H F C J T A Q U U O B W W K Y K I G K M B C V E O N T N A U A E O L V V P I Z D N U O S	C N M K C E Y W F R X M J I S S R O M H N X X J M N X X J M N X X J M N X X J M N X X J M O V F I L Z J F R Y H F C J S T A Q U H U O B W R I G K M R I G K M R I G K M R I G K M R I G K M R I I A <td>CNMKCGEYWFRAXMJISZSROMHANXXJMTOVFILOZJFRYRHFCJSZTAQUHZUOBWRWWKYKFSIGKMRTBCVEESONTNRPAUAEAAOLVVFMPIZDMTNUOSQU</td> <td>CNMKCGRYWFRACXMJISZRSROMHAZNXJMTROVFILOKZJFRYROHFCJSZTTAQUHZKUOBWRWPWKYKFSSIGKMRIEBCVEESQONTNRPSAUAEAAEOLVVFMLPIZDMTBNUOSQUQ</td> <td>CNMKCGRWEYWFRACSXMJISZRPSROMHAZVNXXJMTRKOVFILOKCZJFRYROCHFCJSZTNTAQUHZKAUOBWRWPJMKYKFSSWIGKMRTEVIGKMRPSZMKYFAAEVIGKMRPSZMKYFMIUVIGKMRPSZAUAEAAEWOLVFMIUIPIZDMTBDNUOSQUQX</td> <td>CNMKCGRWAEYWFRACSGXMJISZRPSSROMHAZVJNXXJMTRKSOVFILOKCIZJFRYROCKHFCJSZTNCTAQUHZKAAUOBWRWPJSWKYKFSSWTIGKMRTEVAIGKMRSQHLIGKMRPSZIAUAEAAEVAIGKMRPSZIAUAEAAEWIIGKFMIUNIAEAAEWIIJKFMIUNIIZDMTBD</td> <td>CNMKCGRWASEYWFRACSGLXMJISZRPSISROMHAZVJVNXXJMTRKSPOVFILOKCITZJFRYROCKEHFCJSZTNCLTAQUHZKAAEUOBWRWPJSSWKYFSSWTCIGKMRTEVAOIGKMRSSWTCIGKMRSSZIEAUAEAAEVAOIGKMRIIIIIIGKMRIIIIIIGKIIIIIIIIINRIIII<t< td=""><td>CNMKCGRWASTEYWFRACSGLCXMJISZRPSIASROMHAZVJVSNXXJMTRKSPWOVFILOKCITRZJFRYROCKETHFCJSZTNCLNTAQUHZKAAEEUOBWRWPJSSSSWKYFSSSWTCIHFCJSSSWTCIHFSSSWTCINSSHFSSSWTCIIIIHFSSQHIPIIIIHFSSQHIIPIIIIHGKFSQI</td><td>CNMKCGRWASTAEYWFRACSGLCNXMJISZRPSIAESROMHAZVJVSCNXJJMTRKSPWIOVFILOKCITRXZJFRYROCKETKJFRYROCKETKJFRYRNCINZIJFRYROCKETKJFRYRNINIIIIJFRYRIIIIIIIJKFSSSWIIIIIJNKFSSVIIIIIJKNRPSZIIIIIJKNRPSZIIIIII<td>CNMKCGRWASTAREYWFRACSGLCNYXMJISZRPSIAEJSROMHAZVJVSCANXXJMTRKSPWISOVFILOKCITRXTZJFRYROCKETKRHFCJSZTNCINVTZJFRYROCKETKRHFCJSZTNCININJFRYRNCINININHFCJSZTNCINIIJAQUHZKAAEINIHFCJSSSSSSSIIIHGKFSSSV</td></td></t<><td>CNMKCGRWASTARSEYWFRACSGLCNYYXMJISZRPSIAEJQSROMHAZVJVSCAYNXJJMTRVJVSCAYNXJJMTRKSPWISINXJMTRKSPWISINYFILOKCITRXTGVFRYROCKETKRIGZJFRYROCKEINIIIZJFRYRNCIIIIIIIZJFRYFSSWIIIIIIZJFRSSWIIIIIIIIIIZARFS<!--</td--><td>NMKCGRWASTARSFYWFRACSGLCNYYYXMJISZRPSIAEJQRSROMHAZVJVSCAWWNXXJMTRKSPWISIMVYSJMTRKSPWISIMVYSJMTRKSPWISIMVYSJMTRKSPWISIMVFILOKCITRIIIIIVFISZTNCII<td< 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<td>CNMKCGRWASTAREYWFRACSGLCNYXMJISZRPSIAEJSROMHAZVJVSCANXXJMTRKSPWISOVFILOKCITRXTZJFRYROCKETKRHFCJSZTNCINVTZJFRYROCKETKRHFCJSZTNCININJFRYRNCINININHFCJSZTNCINIIJAQUHZKAAEINIHFCJSSSSSSSIIIHGKFSSSV</td>	CNMKCGRWASTAREYWFRACSGLCNYXMJISZRPSIAEJSROMHAZVJVSCANXXJMTRKSPWISOVFILOKCITRXTZJFRYROCKETKRHFCJSZTNCINVTZJFRYROCKETKRHFCJSZTNCININJFRYRNCINININHFCJSZTNCINIIJAQUHZKAAEINIHFCJSSSSSSSIIIHGKFSSSV	CNMKCGRWASTARSEYWFRACSGLCNYYXMJISZRPSIAEJQSROMHAZVJVSCAYNXJJMTRVJVSCAYNXJJMTRKSPWISINXJMTRKSPWISINYFILOKCITRXTGVFRYROCKETKRIGZJFRYROCKEINIIIZJFRYRNCIIIIIIIZJFRYFSSWIIIIIIZJFRSSWIIIIIIIIIIZARFS </td <td>NMKCGRWASTARSFYWFRACSGLCNYYYXMJISZRPSIAEJQRSROMHAZVJVSCAWWNXXJMTRKSPWISIMVYSJMTRKSPWISIMVYSJMTRKSPWISIMVYSJMTRKSPWISIMVFILOKCITRIIIIIVFISZTNCII<td< td=""><td>CNMKCGRWASTARSEJEYWFRACSGLCNYVYTXMJISZRPSIAEJQRUSROMHAZVJVSCAWWWNXXJMTRKSPWISIMZNXYJMTRKSPWISIMZNXYJMTRKSPWISIMZNYFILOKCITRIIIIIVFILOKCITRII<t< 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TELESCOPE	STARS	MARS
ROCKET	ALIENS	ASTRONAUT
EARTH	MOON	OUTER SPACE
PLANETS	UNIVERSE	



For reference to the Teachers' & Parents' Resources, this goes with "Incredible Exoplanets: Scene 8".



www.thebigquestionsanswered.com

DIARY ENTRY

Imagine you were working in an astrobiology lab one day when you discovered a new exoplanet! Use the space below to write a diary entry all about it.

Feeling stuck? Try some of these
Describe the location of the planet.
What galaxy is it in? What star does it orbit?
Describe what it looks like.
Think about the size and color.
Describe how you would be feeling.
Would you be excited, nervous, or something else?
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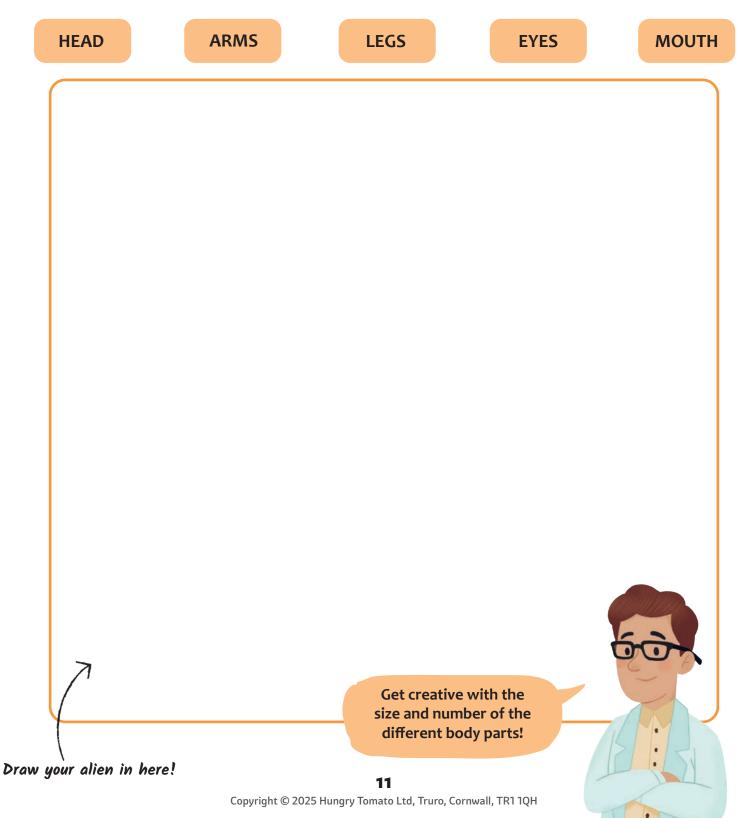
For reference to the Teachers' & Parents' Resources, this goes with "Imagining Alien Life: Scene 9".



www.thebigquestionsanswered.com

CREATE YOUR OWN ALIEN

Astrobiologists haven't found aliens (yet!), but they have ideas about what they could look like if they did exist. Try creating your own alien, making sure to include all the body parts below.





For reference to the Teachers' & Parents' Resources, this goes with "Imagining Alien Life: Scene 9".



www.thebigquestionsanswered.com

CREATE YOUR OWN ALIEN GROUP

Now that you've created one alien, why not create a whole group of different ones! This time, choose whichever body parts you want to include... or not include!





lots of new aliens! What will you name them all?

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For reference to the Teachers' & Parents' Resources, this goes with "Strange New Moons: Scene 10".



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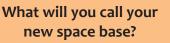
DESIGN YOUR OWN SPACE BASE

Scientists are planning to create a space base on Earth's Moon in the future, which they will use for scientific research and as a base from which to explore deeper into outer space. Try creating your own space base, using the prompts below.

Think about:

- Where will you build your base?
- Will the buildings be above ground or underground? What shape will they be?
- What will the people eat? Will they grow food in space or have it transported?
- Will the people need to wear special equipment to breathe on the planet?
 - How will the people get around the planet?

\ Draw your space base in here!







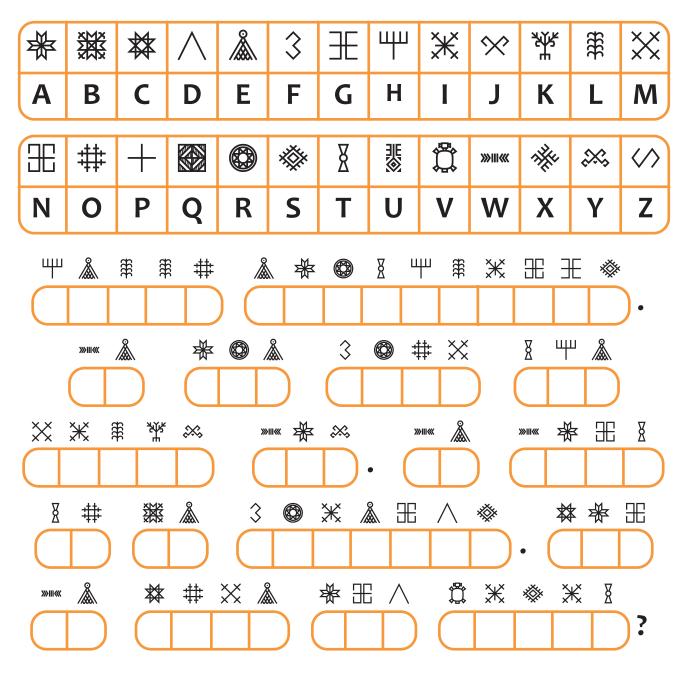
For reference to the Teachers' & Parents' Resources, this goes with "Listening for Life: Scene II".



www.thebigquestionsanswered.com

A MESSAGE FROM SPACE!

You are working in the astrobiology lab when a strange message flashes up on your computer screen. It looks like a message from aliens deep in outer space! Can you use the code below to work out what they are saying? Once you've read your message, write your response using the code on a separate piece of paper.



What are they trying to say?

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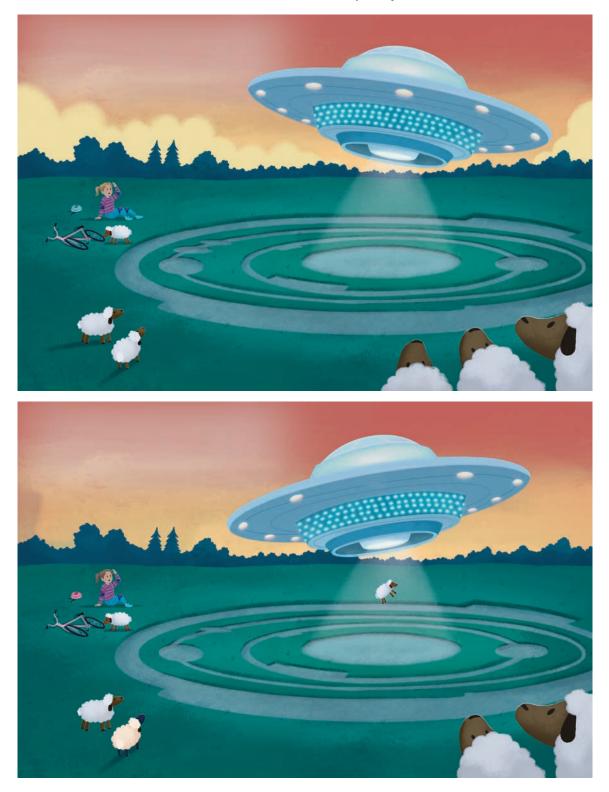
For reference to the Teachers' & Parents' Resources, this goes with "Stories of UFOs: Scene 12".



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UNDERCOVER UFO

This sneaky UFO is trying to catch us out! Can you spot the **10** differences between the two scenes? Circle them when you spot them.





For reference to the Teachers' & Parents' Resources, this goes with "The Milky Way: Scene 13".



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INTO THE UNKNOWN

Outer space certainly is a fascinating place, and the future of space travel and space science is very exciting, but is space travel something you would want to get involved in? Read the questions below and think about your own opinions before filling in your answers.

If you had the chance, would you travel into outer space and explore faraway planets? Why or why not?

What do you think living on another planet would be like?

What 3 things would you take with you on your space journey and why?

What would you miss the most about Earth?



For reference to the Teachers' & Parents' Resources, this goes with "Post-Reading Questions".



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WRITE YOUR OWN ASTROBIOLOGY STORY

Can you write a story of your own about astrobiology, making sure to include the 3 key words below?

ALIEN	PLANET	ASTROBIOLOGIST

MORE FUN ASTROBIOLOGY **ACTIVITIES**

COLORING SHEETS & MORE!

The following activities aren't based on any specific scenes in the book. They can be used on their own or alongside the book as extra activities.

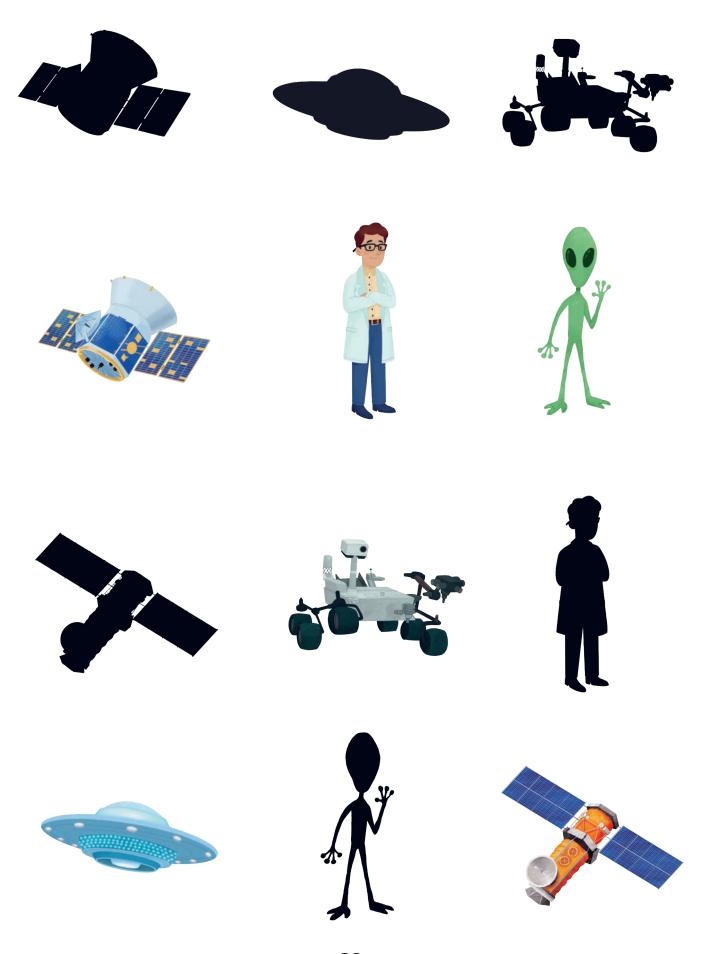
FIND THE SCIENTIST

There are lots of different scientists below. Can you find the astrobiologist? Circle them when you find them – there's only one!



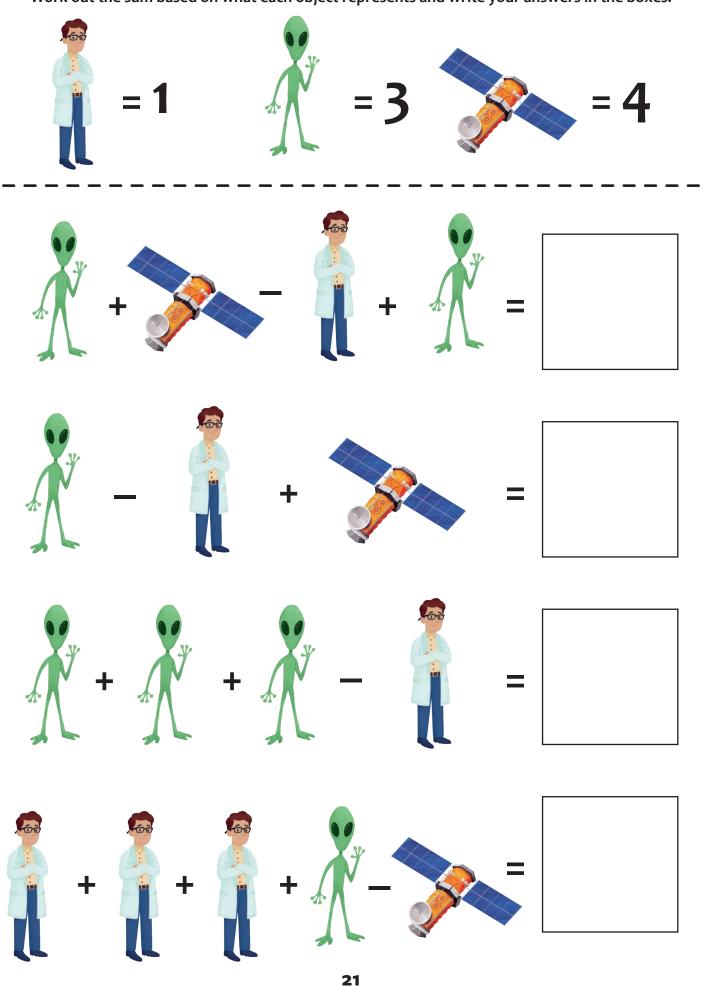
MATCH THE SHAPE

Can you match each shadow to the correct picture? Draw a line to connect them.

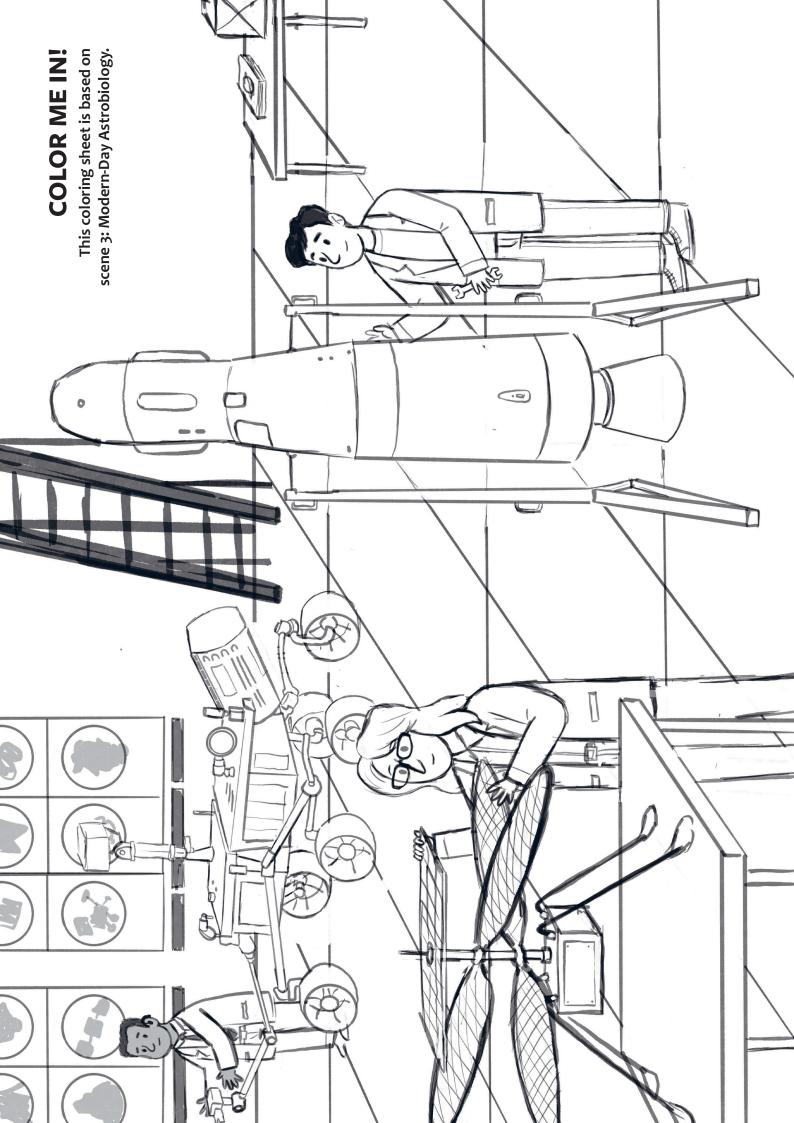


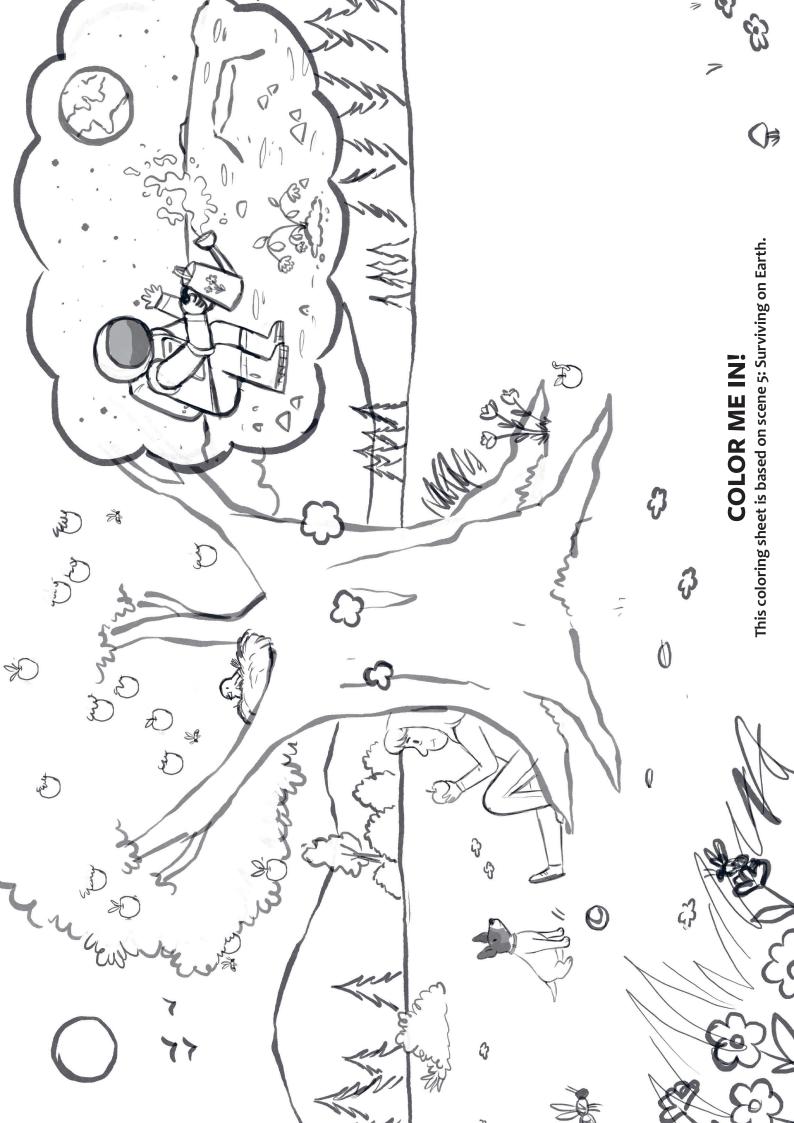
SIMPLE SUMS

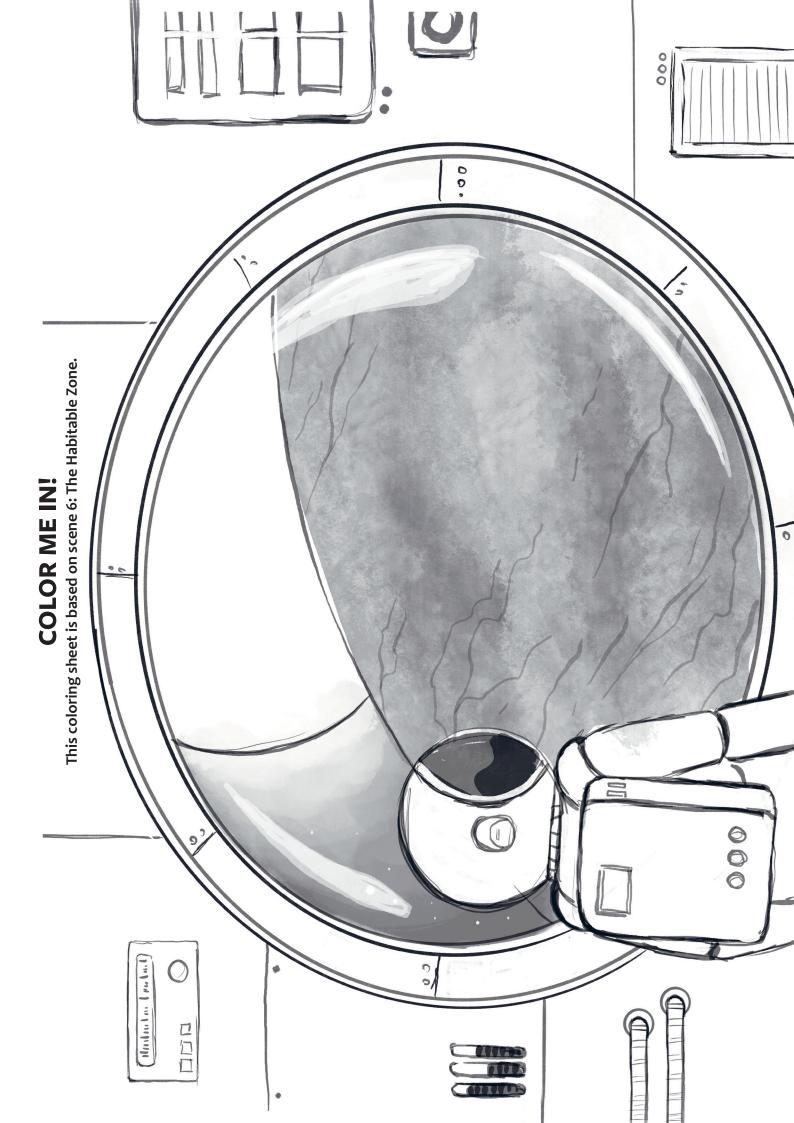
Below are three objects which represent different numbers. Work out the sum based on what each object represents and write your answers in the boxes.



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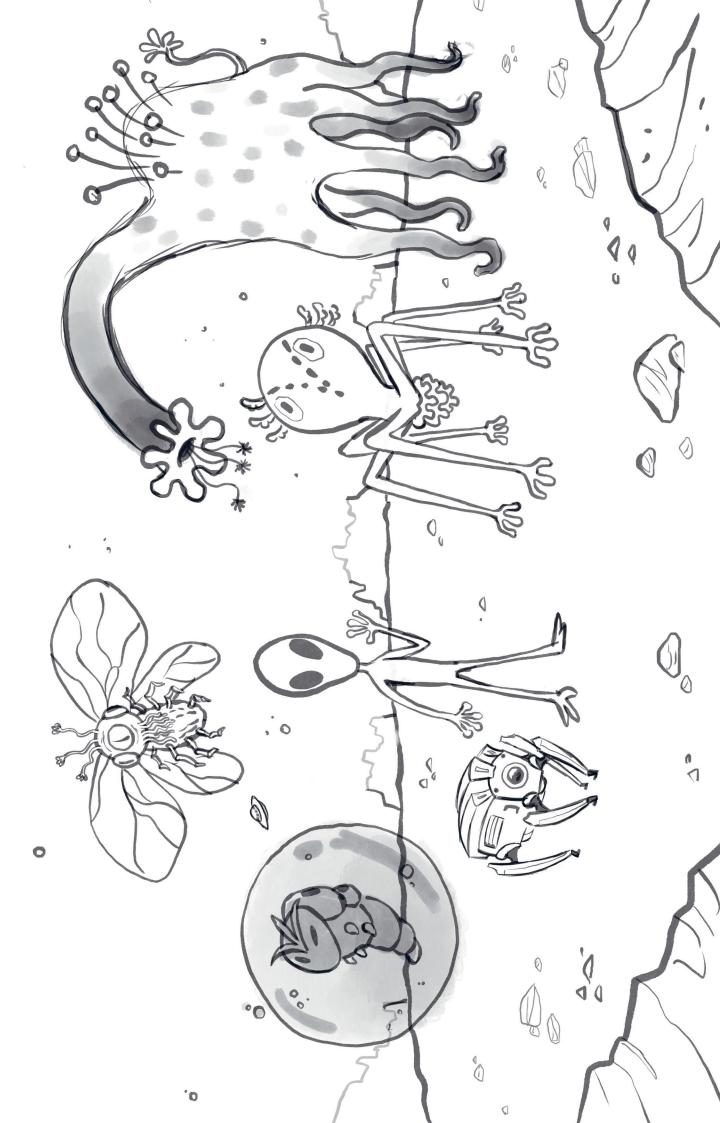




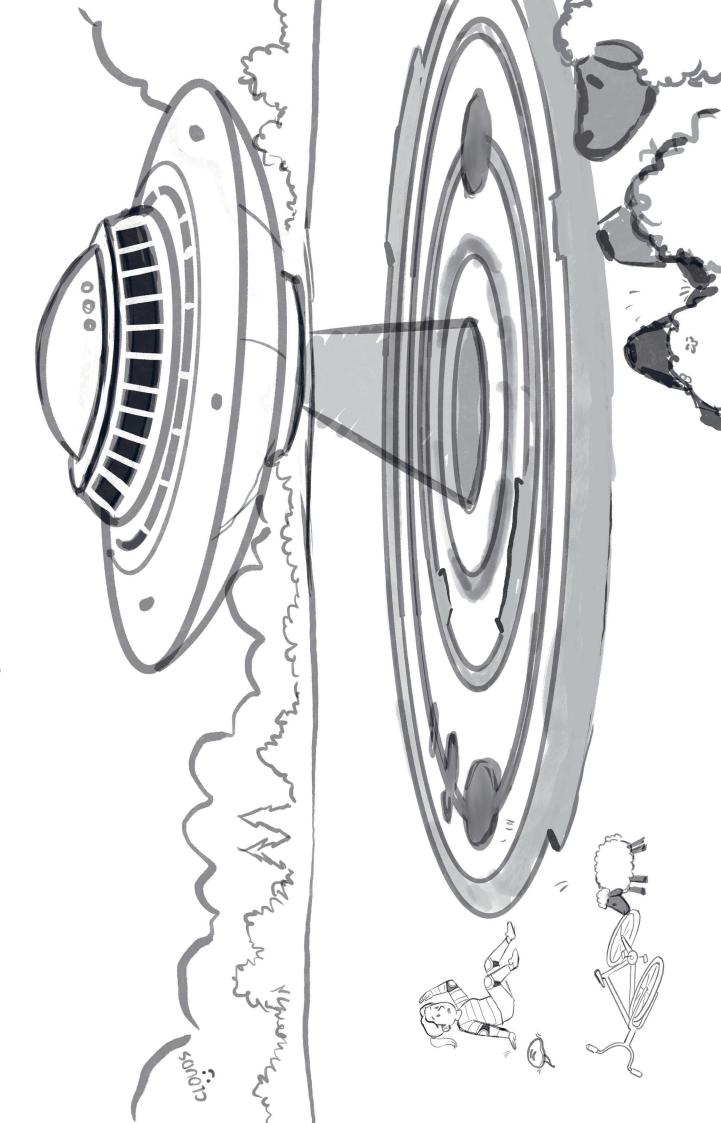


COLOR ME IN!

This coloring sheet is based on scene 9: Imagining Alien Life.

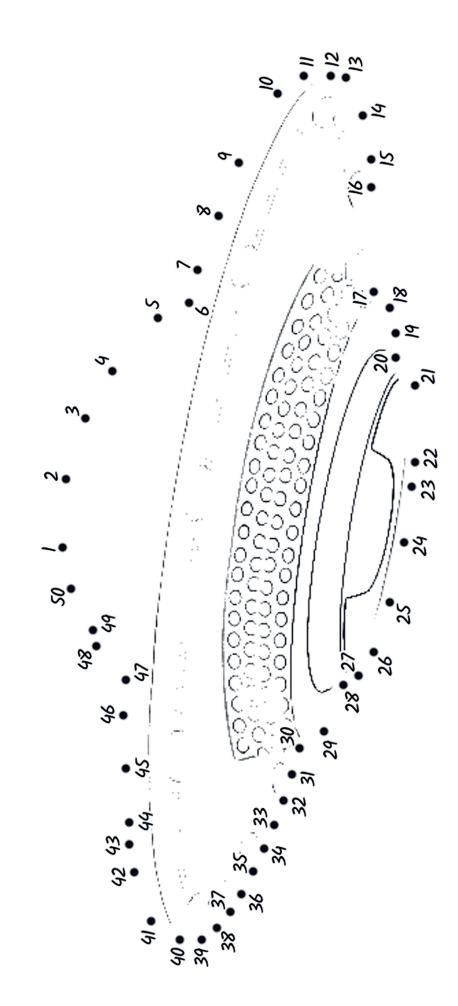






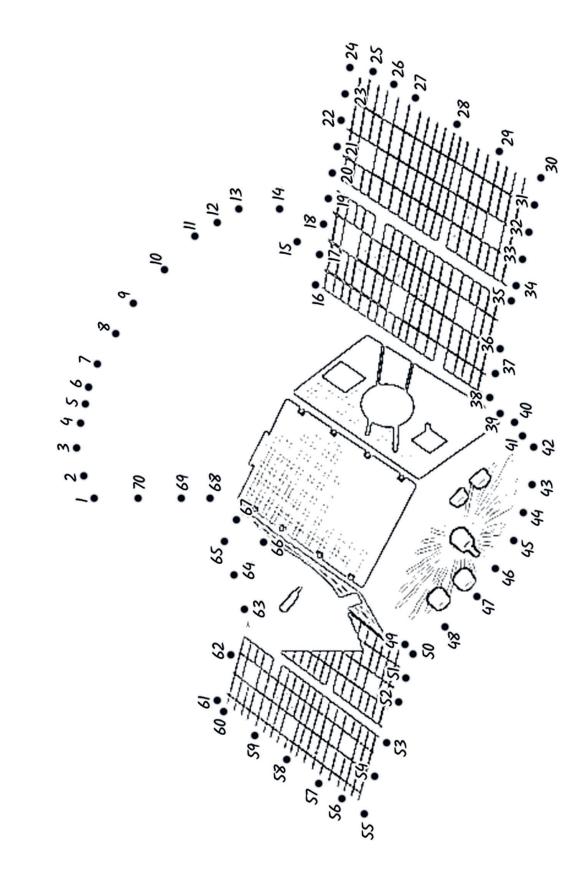
DOT-TO-DOT

Starting from 1, draw a line connecting the numbers to create a picture. Why not color it in afterward?



DOT-TO-DOT

Starting from 1, draw a line connecting the numbers to create a picture. Why not color it in afterward?



YOUNG ASTROBIOLOGISTS' ACTIVITY ANSWERS

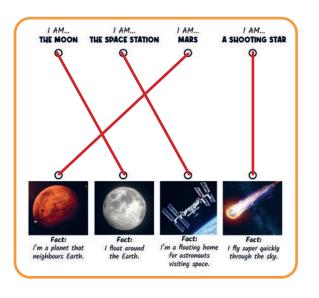
Find the answers to the activities on the following pages.

ACTIVITY ANSWERS

Check your answers against the correct answers below!

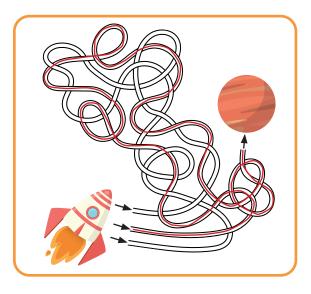
OUTER SPACE MIX-UP ANSWERS

The answers below are for the "match up" activity on page 4.



LOST IN OUTER SPACE ANSWERS

The answers below are for the "maze" activity on page 6.



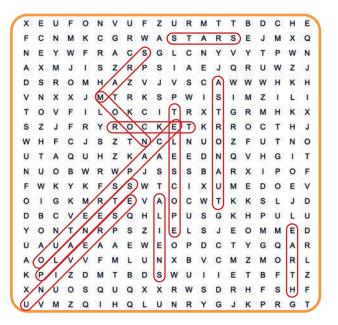
OUR PLACE IN SPACE ANSWERS

The answers below are for the "fill in the blanks" activity on page 8.

- 1. The planet that we live on is called **<u>Earth</u>**.
- 2. It is the third planet from the <u>Sun</u>. It comes after Mercury and Venus, but before <u>Mars</u>.
- 3. Unlike some of the other planets in the solar system, Earth only has one **moon** which orbits the planet, affecting the tides and presenting an exciting opportunity for space travel.
- 4. Earth is within our solar system's habitable <u>zone</u>. Its distance from the Sun means it's not too hot and not too cold it's just right for living things.
- 5. It is currently the only planet in the **universe** that is known to hold life.

WORDS LOST IN OUTER SPACE ANSWERS

The answers below are for the "word search" activity on page 9.



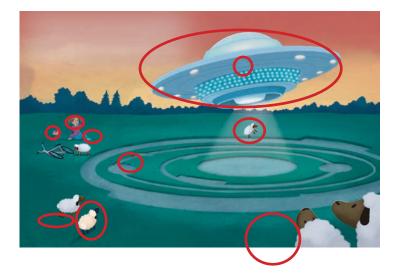
A MESSAGE FROM SPACE! ANSWERS

The answers below are for the "decoding challenge" activity on page 14.



UNDERCOVER UFO ANSWERS

The answers below are for the "spot the difference" activity on page 15.





EXTRA ACTIVITY ANSWERS

Check your answers against the correct answers below!

FIND THE SCIENTIST

The answers below are for the activity on page 19.

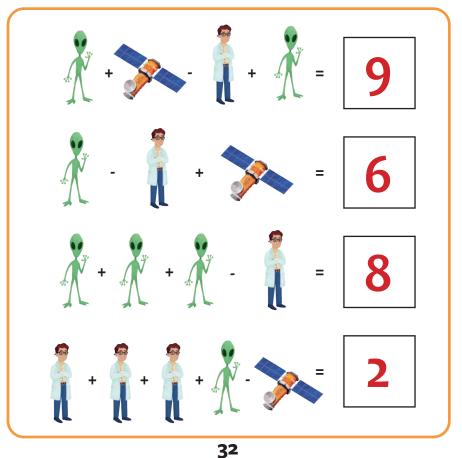


MATCH THE SHAPE

The answers below are for the activity on page 20.



SIMPLE SUMS The answers below are for the activity on page 21.



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