Goodnight Starry

Teacher & Kid Resources Recommended ages: 3 to 6 years

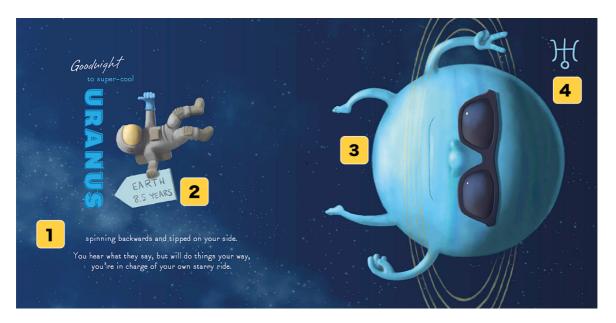


WHAT IS GOODNIGHT STARRY ABOUT?

Goodnight Starry is a beautiful picture book for little stargazers aged 3 to 6 years. Saying goodnight to each member of the Earth's family in the solar system, they will discover how very different and special each one is and learn things that they will recall, long after bedtime is over.

Humorously written and beautifully illustrated, *Goodnight Starry* is the perfect goodnight story to ignite a little one's love of the planets, moons, stars and space. They can sleep safe and sound, secure in the knowledge that the Earth's celestial family also watches over them each and every night.

Each page of *Goodnight Starry* introduces four key learnings about the planets in our solar system:



- T Key Fact about each Planet
- **2** Distance from Earth based on previous space missions
- **3** Appearance, size and colour of the Planet
- Planet's Official Astronomical Symbol

WHAT'S ON GOODNIGHT STARRY'S WEBSITE?

The *Goodnight Starry* website provides teachers and parents access to resources to help children learn more about the Solar System. It also has a range of children's games and activities based on *Goodnight Starry*. Click https://goodnightstarry.com/ to visit the website.

TEACHER RESOURCES

These resources have been specifically developed to support teachers. All activities are presented electronically (in the form of Powerpoint and PDF presentation packs) for use in class, or in printable format for homework. Click https://goodnightstarry.com/pages/for-teachers for teacher's resources.

Based on the **UK National Curriculum Stages**, the activities on the website (and some within this pack) will contribute to the Early Years Foundation Stage (3 to 5 years) developments in:

- 1. Language & Literacy (e.g. Comprehension Checks, Reading and Research skills)
- 2. Understanding the World Around Us
- 3. Communication Skills
- 4. Numeracy Skills
- 5. Sciences

KIDS ACTIVITIES

A range of games and activities are also available for children to explore at home. Click https://goodnightstarry.com/pages/for-kids for kid's resources.

PLANETARY EXPLANATORY

The website also has a 'Planetary Explanatory' where teachers and parents can quickly get the answers to all those tricky space questions children may ask. Amaze little stargazers with your space knowledge - because grown-ups know everything, right?

For example:

- 1. Why is the Moon holding a rabbit?
- 2. Why is the Sun called 'the Sun'?
- 3. And is Pluto still a Planet?

Click https://goodnightstarry.com/pages/planetary-explanatory-2 for Planetary Explanatory resources.

SUMMARY OF FULL RESOUCES

For a summary of the free resources available, click https://goodnightstarry.com/pages/kids-activities

Outline of this Pack

Activities 1 \$ 2: Comprehension and understanding

checks

Activity 3: Guess the Planetary Symbol

Activity 4: Distance to Earth

Activity 5: Crossword Puzzles

Activity 6: Build a Fruity Solar System

Activity 7: Fill in the missing words

Activity 8: Colour-Me-In Templates

And lots more on the website https://goodnightstarry.com/

Activity 1 - Comprehension Check (1)

After reading Goodnight Starry, can you answer the following questions?

- 1. Which is your favourite Planet? Why?
- 2. Which Planet:
 - a. Has a windy bottom?
 - b. Was last to be found?
 - c. Spins on its side?
 - d. Has the most beautiful rings?
 - e. Has the biggest dust storms?
 - f. Is closest to the Sun?
 - g. Is deep blue like the ocean?
 - h. Is brightest in the night sky?
- 3. Emotions: Many of the Planets look like they are feeling different things in the story. Which planet:
 - a. Looked embarrassed?
 - b. Looked angry?
 - c. Was hot and bothered?
 - d. Was really, really excited?
 - e. Had the biggest smile?
 - f. Looked most glamourous?
 - g. Looked naughty or cheeky?
 - h. Was very relaxed?
 - i. Looked like a Queen?

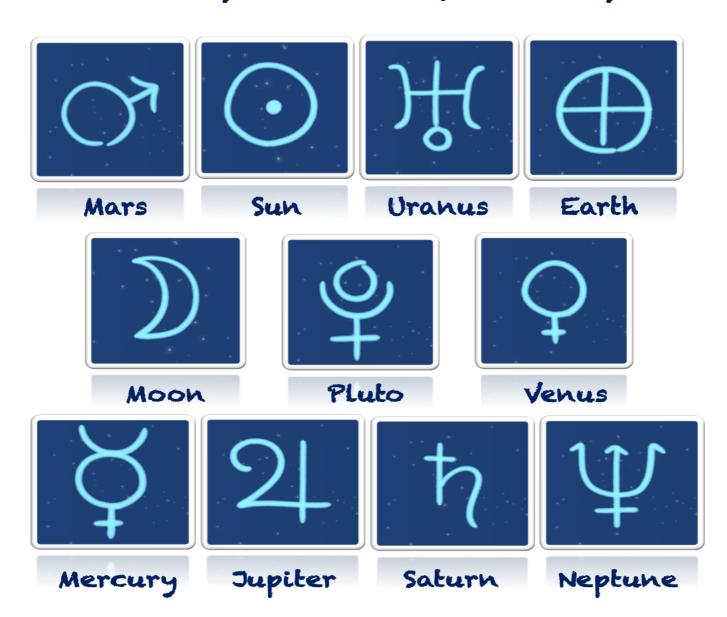
Activity 2 - Comprehension Check (2)

After reading Goodnight Starry, you should be able to identify what my name is?

I'm Earth's glamourous sister, all sparkles and glitter.	My name is
I have a necklace of pearls around my majestic world.	My name is
I'm always running around, and I was last to be found.	My name is
I have dust storms blowing high into rusty red skies.	My name is
I'm the one that lives closest to the Sun.	My name is
I'm tipped over and spin on my side.	My name is
I'm the one sparkling all green and blue.	My name is
I'm the big daddy of all this bunch.	My name is
I'm the one that shimmers like the deep blue sea.	My name is

Activity 3 - Guess the Planetary Symbol

Learn the official symbols for each of the Objects in our Solar System.



Guess the Planetary Symbol from memory?

















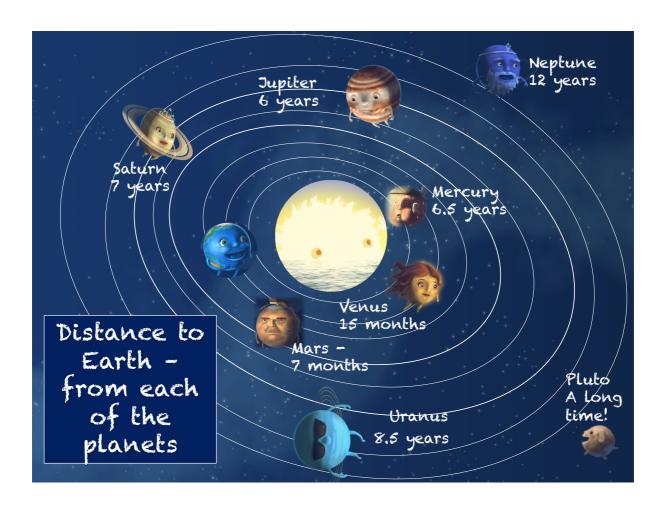






Activity 4 - Distance to Earth?

Study the distance of each Planet to Earth (based on previous space missions) and then test your learning.



Details of each of the different space missions can be found in the Planetary Explanatory section of our website.

See https://goodnightstarry.com/pages/planetary-explanatory-2

Guess the Planet based on distance to Earth?









Guess the Planet based on distance to Earth?





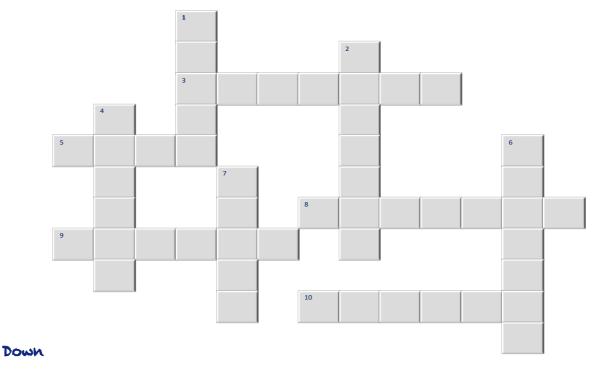




Activity 5 - Crossword Puzzles

Find answers to the clues below at the Planetary Explanatory - see https://goodnightstarry.com/pages/planetary-explanatory-2

Puzzle 1



- 1 Which Planet is the hottest in the Solar System?
- Which Planet has a great red spot?
- 4 Which Planet has the most rings around it?
- 6 What do you call an Alien that is supposed to live on Mars?
- Which 'Planet' was the last to be found?

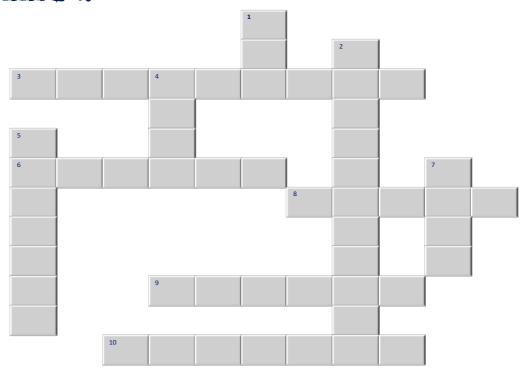
Across

- Which Planet looks like the deep blue sea?
- 5 Which Planet was named after the Roman God of War?
- 8 Which Planet is named after the Roman God of Messengers?
- 9 Which Planet orbits the Sun on its back?
- This collection of gas is called the Heart N____?

Activity 5 - Crossword Puzzles

Find answers to the clues below at the Planetary Explanatory - see https://goodnightstarry.com/pages/planetary-explanatory-2

Puzzle 2



Down

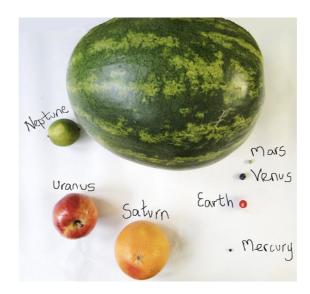
- 1 What Star must you never look at?
- Who was the first man to go into space?
- 4 Which object has the outline of a rabbit on its face?
- 5 Which Planet is the biggest?
- 7 The Sun is a huge _ _ _ _

Across

- What is another name for an Astronaut?
- 6 Which Planet spins backwards and tipped on its side?
- 8 Which is the only place in the Solar System where any life is found?
- 9 Which Planet has a moon called Titan?
- 10 Which is the coldest Planet (on average)?

Activity 6 - Build a Fruity Solar System

Use fruit to understand the relative size of the Planets to each other and also learn the order of the Solar System.



How:

- 1. Use the following pieces of fruit to set up this activity
- 2. Ask the following questions using the fruit as props to build the Solar System

GAS GIANTS

JUPITER - 1 Watermelon

SATURN - 1 Orange

URANUS - 1 Large apple

NEPTUNE - 1 Lime

ROCKY PLANETS

EARTH - 1 Cherry tomato

VENUS - 1 Blueberry

MARS - 1 Pea

MERCURY - 1 Peppercorn

Build the Fruity Solar System. Questions:

- 1. Out of all the objects in our Solar System, which object is the biggest?
- 2. How many Planets are there in the Solar System?
- 3. What are the names of all the Planets?
- 4. Ask the children to guess which fruit resembles each Planet
- 5. Ask the children to arrange the fruit in the order of the Solar System
- 6. Which Planets are known as the Rocky Planets?
- 7. What Planets are known as the Gas Giants?

Activity 7 - Fill in the missing words

Find the missing words by researching Planetary Explanatory at https://goodnightstarry.com/pages/planetary-explanatory-2

Lesson 1: The Sun, Moon and Mercury

How long would it take you to travel to the Sun?
If you flew to the Sun as fast as a jet airplane normally travels, it would take you
years to get there.
Why is it called the Sun?
English is part of a family of languages that came from Germany. And an old German word
was first used to describe that big, orangey thing in the sky.
In Old English, this gradually changed to before it was shortened to 'Sun' in
modern English.
Where did the Moon come from?
It is thought that the Moon was created from the remains of a Planet (about the size of
) that collided with the Earth around billion years ago.
Why is the Moon holding a rabbit?
Many Asian and indigenous American people see the shape of a rabbit in the dark and light
markings on the Moon, which they call the ''.
Who is Mercury named after?
Mercury was named after the God of
Has anyone ever been to Mercury?
No human is likely to set foot on Mercury, as it's just too unpleasant.
So instead, we have sent overunmanned spacecraft (or robotic probes) to Mercury over
the years.

Lesson 2: Venus, Mars and Little Asteroids

Find the missing words by researching Planetary Explanatory at https://goodnightstarry.com/pages/planetary-explanatory-2

Who is Venus named after?
Venus was named after the Roman Goddess ofand
Why is the Planetary symbol for Venus used to represent women here on Earth?
Venus has long been associated with It is sometimes called Earth's sister Planet as
it has a similar structure and size to our home.
Why does Mars have a red brush on his head and look so angry?
The ancient Romans named this Planet after their mighty of, Mars, because of
the way it twinkles blood-red in the night sky.
Are there really volcanoes on Mars?
Mars is home to the biggest Volcano found so far in the Solar system, called 'Olympus
'. At around 22km (miles) high, it is roughly 3 times higher than the
highest mountain on Earth, Mount
What are Asteroids?
Asteroids are little bits of, stone and that orbit around the Sun in a region
known as the Asteroid Belt.
What's the difference between an Asteroid and a meteorite?
When asteroids collide, little pieces can break off and fly away. If they fly off in a direction
that takes them outside the orbit of the Asteroid Belt, they are then called a
Answers in Appendix 7

Lesson 3: Jupiter, Saturn and Uranus

Find the missing words by researching Planetary Explanatory at https://goodnightstarry.com/pages/planetary-explanatory-2

Why is it called Jupiter?
The Romans had many gods, but the most important of these was Jupiter, who was the
of all of the Gods. So, they called the largest Planet they could see in the night sky after their
greatest God of all, mighty Jupiter.
Why does Jupiter have a windy bottom?
A mighty storm, known as the Great has been raging for hundreds of years
in Jupiter's southern hemisphere.
What are Saturn's rings made of?
Saturn's beautiful rings are made up of millions and millions of tiny particles of,
rocks and
How many moons does Saturn have?
Saturn has official moons and maybe up to another more
Why does Uranus spin backwards?
We're not sure why, but Uranus spins in the direction to the Earth and almost all of
the other Planets (except Venus).
Why is it called Uranus?
All of the other Planets (besides Earth) are named after Roman Gods.
Uranus is different and is named after the God of the
Answers in Appendix 7

Lesson 4: Neptune, Pluto and The Galaxies

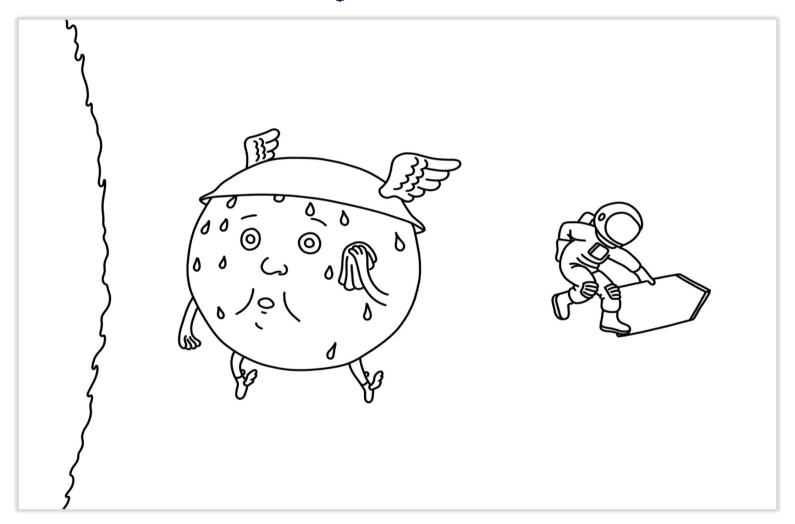
Find the missing words by researching Planetary Explanatory at https://goodnightstarry.com/pages/planetary-explanatory-2

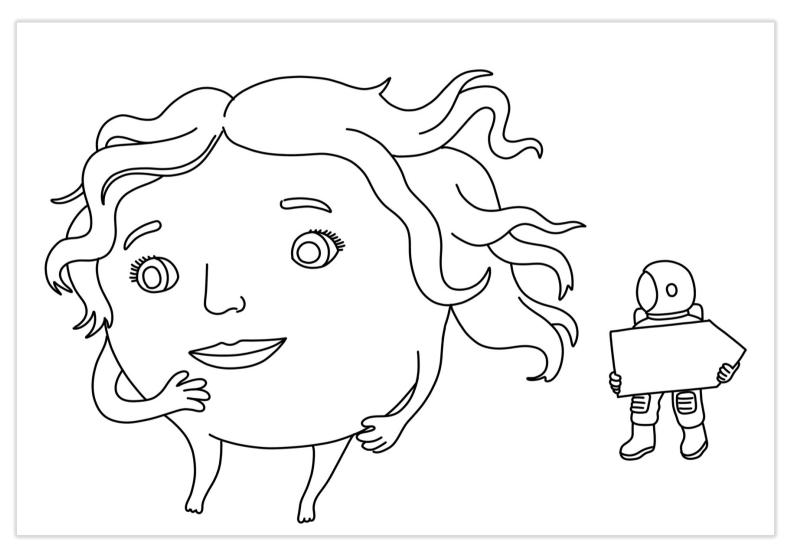
Does Neptune really ha	ve rings?
Yes, Neptune is surround	led by a set of known rings. They were first discovered by the
probe Voyager 2, who fle	ew past Neptune in
Why is it called Neptun	e?
Only discovered in	, Neptune was named after the Roman God of the
Is it true that Pluto is n	ot a Planet anymore?
From its discovery in	until 2006, Pluto was classed as the ninth and last Planet in our
solar system. However, v	when began finding other objects in our solar system
that were similar in size t	to (or even bigger than) Pluto, they had to decide what it is they
mean when they say 'Pla	net'. Under the new definition, Pluto is now considered to be a
small,P	lanet.
Why is it called Pluto?	
Pluto was named after the	e Roman God of the, who was thought to live at the very
end of the world and past	t the furthest boundaries of the ocean. The name Pluto was
suggested by an 11-year-	old, Venetia Burney, after more than 1,000
names had been proposed	d to the observatory that discovered it.
And what's a galaxy?	
A galaxy is a large group	of stars (like our Sun), gas and dust (like the Planets in our solar
system and in the billions	s of other solar systems in our galaxy) that are all bound together by
the mighty force of	·
What galaxy are we in a	again?
We're part of the '	Way' galaxy but there are at least 100 billion other galaxies
(and different types of ga	laxies) out there in the

Lesson 5: Earth, Heart Nebula, Astronaut & Our Solar System

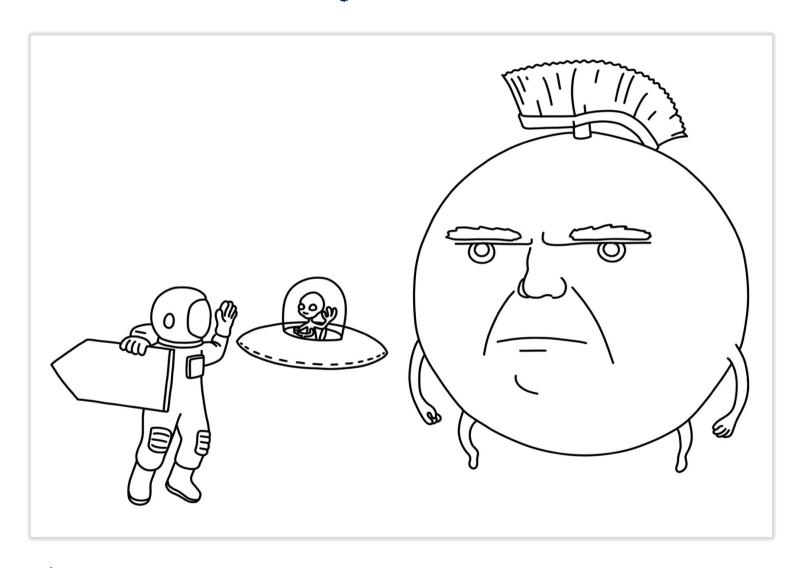
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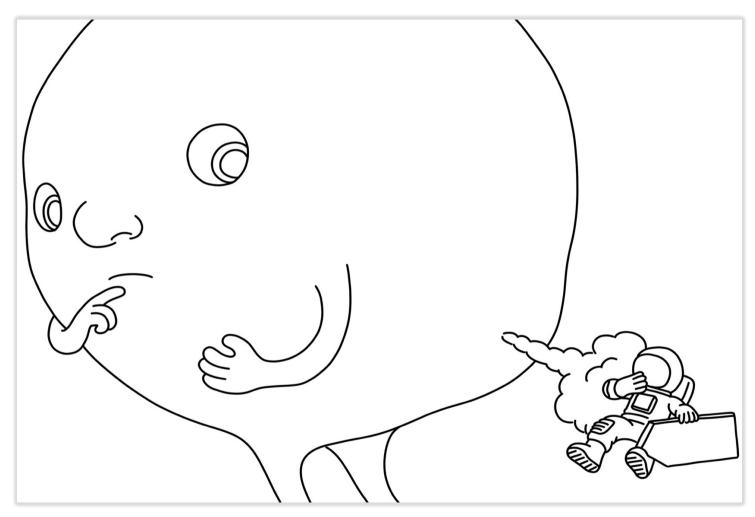
Why is our Planet ca	alled Earth?	
Unlike every other Pl	anet in the solar system, the Earth was not named aft	er a Greek or
Roman God. Rather,	the word 'Earth' comes from an eighth-century	(or
English-German) wor	rd 'Erda', which just meant 'the' or 'soi	1'.
What is that on the	top of the Earth?	
At the very top and v	ery bottom of the Earth, and at different times of the	year, you can often
see alig	ht show up high in the night sky. Near the North Pole	e, these are called
the 'lights	s' (or the Aurora Borealis). While near the South Pol	e, they are called
the 'Southern lights'	(or Australis).	
What is an Astrona t	ıt?	
An Astronaut is anyo	ne who has trained to go into space aboard a	, either as a
pilot or crew member	:	
How do I become an	Astronaut?	
You have to	at school and be very physically fit. Engi	neering, Science
(e.g. physics, biology	, astronomy, chemistry) and mathematics are all very	important subjects
if you want to be an _		
What is a Nebula?		
A Nebula is a cloud o	of dust, hydrogen, helium and other that liv	ve in the regions in
between or so	olar systems (called the interstellar medium).	
Is there only one sol	ar system?	
No, there are many, n	nany more solar systems out there. Almost every one	of the tens of
of stars	s you see in the sky at night-time is a star like our Sur	n. And most of
these also ha	ave Planets and other objects in orbit around them, w	hich also makes
them solar systems.	<u></u>	
•	Answers in	Appendix 7

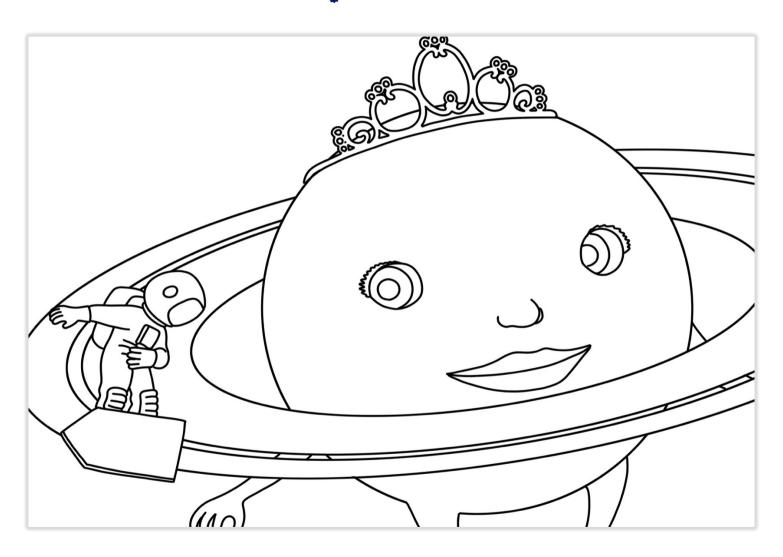


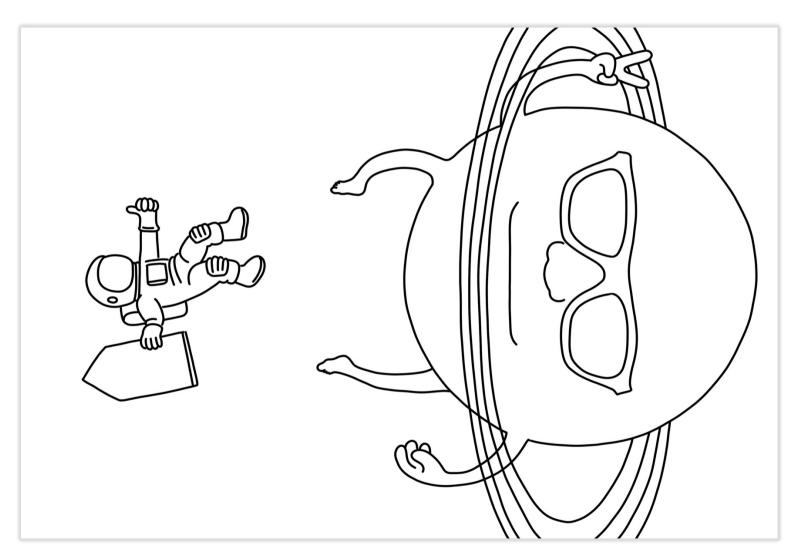


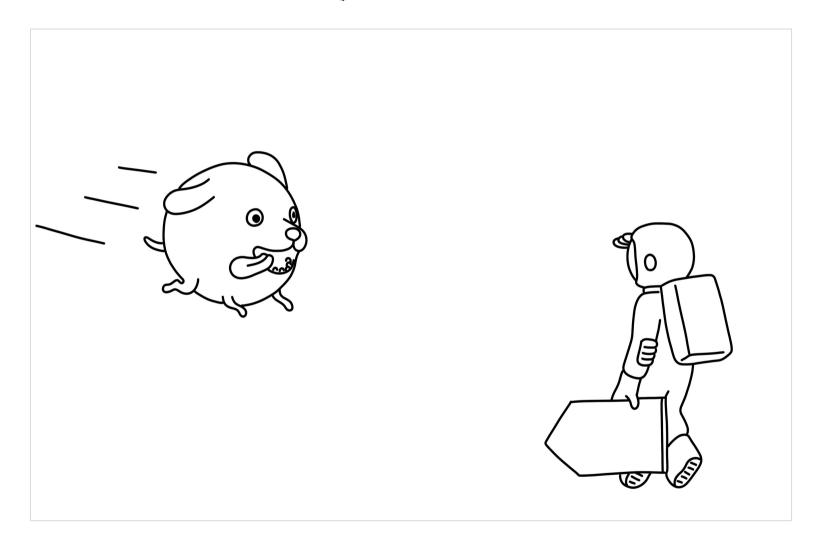


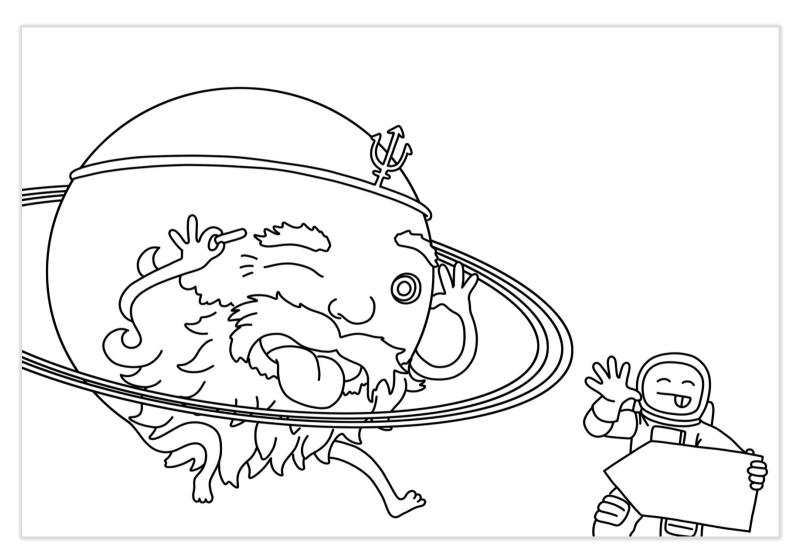










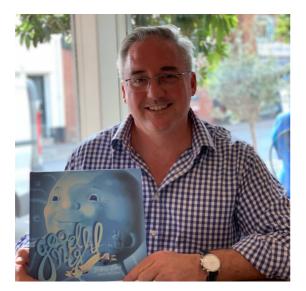


About Us

Meet the Author

Born on the anniversary of the first moon landing, D'Arcy Lewis has always been fascinated with the stars. Growing up under the clear desert night skies of Western Australia, his first little telescope helped him to discover a lifelong love of astronomy. As a nipper, he even wrote to the President of the USA to let him know that Mars had all the resources to sustain life and was worth a visit. NASA politely responded that it wasn't a priority at the time, but also enclosed a beautiful book of planets to further help his 'research'.





The origins of Goodnight Starry

Goodnight Starry was inspired on a cold, clear winters night in our backyard in Bondi, Australia. Some UK friends, visiting with their 9 year old son, saw our telescopes and wanted to view the night skies 'Down Under'. We spent a stellar evening spotting Jupiter, Saturn and the Southern Cross in our chilly winter skies. The idea of developing an educational picture book to introduce the planets and other objects in our solar system to a new generation of little stargazers was born.

Meet the Illustrator

Andrew McIntosh is a digital illustrator from Melbourne, Australia. He started his artistic career in the video games industry focusing on Pixel art, 3D modelling and UI design.



Appendices

Appendix 1 - Comprehension Check (1) Answers

1. Which is your favourite Planet? Why?

k. Is brightest in the night sky?

2. Which Planet:

a. Has a windy bottom?
b. Was last to be found?
c. Spins on its side?
d. Has the most beautiful rings?
e. Has the biggest dust storms?
f. Is closest to the Sun?
9. Is deep blue like the ocean?

Dupiter
Pluto (dwarf Planet)
Uranus
Saturn
Mars
Mercury
Neptune

3. Emotions: Many of the Planets look like they are feeling different things in the story.

Which Planet:

Venus

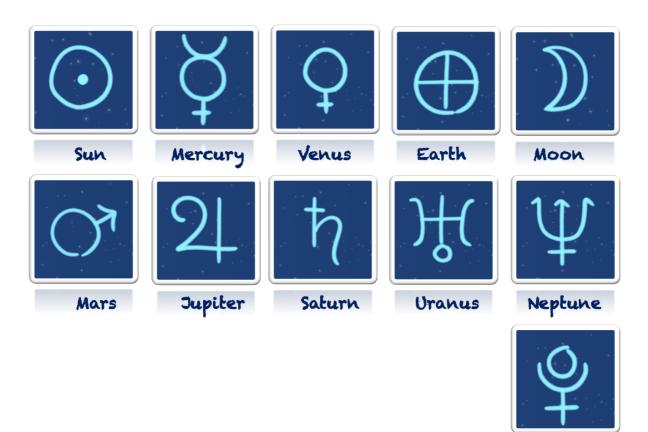
a. Looked embarrassed? Jupiter **b.** Looked angry? Mars **c.** Was hot and bothered? Mercury **d.** Was really, really excited? Pluto Earth e. Had the biggest smile? f. Looked most glamourous? Venus **q.** Looked naughty or cheeky? Neptune **h.** Was very relaxed? Uranus i. Looked like a Queen? Saturn

Appendix 2: Comprehension (2) Answers

I'm Earth's glamourous sister, all sparkles and glitter. My name is Venus My name is Saturn I have a necklace of pearls around my majestic world. My name is Pluto I'm always running around, and I was last to be found. I have dust storms blowing high into rusty red skies. My name is Mars I'm the one that lives closest to the Sun. My name is Mercury I'm tipped over and spin on my side. My name is Uranus My name is Earth I'm the one sparkling all green and blue. My name is Jupiter I'm the big daddy of all this bunch. My name is Neptune I'm the one that shimmers like the deep blue sea.

Appendix 3 - Guess the Planetary Symbol and learn the Order of the Planets

Answers and Order of the Planets



Pluto

Appendix 4 - Guess the Planet based on distance to Earth

Answers



MERCURY



VENUS



MARS



JUPITER





SATURN URANUS

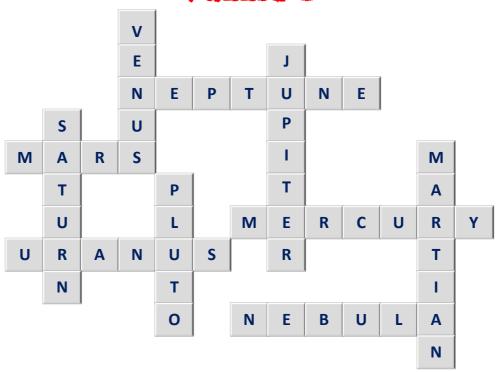




NEPTUNE PLUTO

Appendix 5 - Crossword Puzzle Answers

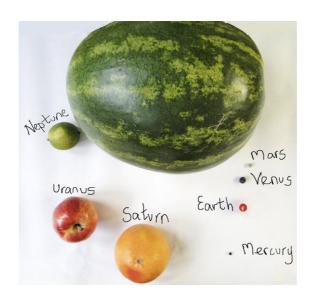
Puzzle 1



Puzzle 2



Appendix 6 - Build the Fruity Solar System Answers



Questions:

- 1. Out of all the objects in our Solar System, which object is the biggest?

 Answer: The largest of all the Planets is Jupiter. But the biggest object in our solar system is our star, the Sun. The Sun is around 10 times larger than Jupiter.
- How many Planets are there in the Solar System?
 Answer: 8 (Pluto isn't counted, as it's classified as a dwarf planet now)
- What are the names of all the Planets?
 Answer: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus & Neptune
- 4. Ask the children to guess which fruit resembles each Planet Answer: As above
- 5. Ask the children to arrange the fruit in the order of the solar system
 Order: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune

- 6. Which Planets are known as the Rocky Planets?

 Answer: Mercury, Venus, Earth and Mars
- 7. What Planets are known as the Gas Giants?

 Jupiter, Saturn, Uranus and Neptune

Order of the Planets



Rocky Planets



Gas Giants



Activity 7 - Fill in the missing words

Lesson 1: The Sun, Moon and Mercury

How long would it take you to travel to the Sun?

If you flew to the Sun as fast as a jet airplane normally travels, it would take you _i _q _ years to get there.

Why is it called the Sun?

English is part of a family of languages that came from Germany. And an old German word Sonne was first used to describe that big, orangey thing in the sky. In Old English, this gradually changed to Sunne before it was shortened to 'Sun' in modern English.

Where did the Moon come from?

It is thought that the Moon was created from the remains of a planet (about the size of $\frac{\text{Mos}}{\text{S}}$) that collided with the Earth around $\frac{\text{Hos}}{\text{S}}$ billion years ago.

Why is the Moon holding a rabbit?

Many Asian and indigenous American people see the shape of a rabbit in the dark and light markings on the Moon, which they call the 'Moon Rabbit's

Who is Mercury named after?

Mercury was named after the Roman God of Messengers

Has anyone ever been to Mercury?

No human is likely to set foot on Mercury, as it's just too unpleasant.

So instead, we have sent over ______________________unmanned spacecraft (or robotic probes) to Mercury over the years.

Lesson 2: Venus, Mars and Little Asteroids

Who is Venus named after?
Venus was named after the Roman Goddess of Love and Beauty
Why is the planetary symbol for Venus used to represent women here on
Earth?
Venus has long been associated with Venus . It is sometimes called Earth's sister
planet as it has a similar structure and size to our home.
Why does Mars have a red brush on his head and look so angry?
The ancient Romans named this planet after their mighty 600 of 400, Mars,
because of the way it twinkles blood-red in the night sky.
Are there really volcanoes on Mars?
Mars is home to the biggest Volcano found so far in the Solar system, called
'Olympus Mons'. At around 22km (14 miles) high, it is roughly 3
times higher than the highest mountain on Earth, Mount _Everse
What are Asteroids?
Asteroids are little bits of <u>focks</u> , stone and <u>fce</u> that orbit around the Sun in a
region known as the Asteroid Belt.
What's the difference between an Asteroid and a meteorite?
When asteroids collide, little pieces can break off and fly away. If they fly off in a
direction that takes them outside the orbit of the Asteroid Belt, they are then called a

Lesson 3: Jupiter, Saturn and Uranus

Why is it called Jupiter?

The Romans had many gods, but the most important of these was Jupiter, who was the **king** of all of the Gods.

So, they called the largest planet they could see in the night sky after their greatest God of all, mighty Jupiter.

Why does Jupiter have a windy bottom?

A mighty storm, known as the Great <u>ked</u> <u>Spot</u> has been raging for hundreds of years in Jupiter's southern hemisphere.

What are Saturn's rings made of?

Saturn's beautiful rings are made up of millions and millions of tiny particles of dost, rocks and ice.

How many moons does Saturn have?

Saturn has <u>53</u> official moons and maybe up to another <u>9</u> more

Why does Uranus spin backwards?

We're not sure why, but Uranus spins in the proste direction to the Earth and almost all of the other planets (except Venus).

Why is it called Uranus?

All of the other Planets (besides Earth) are named after Roman Gods.

Uranus is different and is named after the Greek God of the Sky.

Lesson 4: Neptune, Pluto and The Galaxies

Is it true that Pluto is not a planet anymore?

From its discovery in 1930 until 2006, Pluto was classed as the ninth and last planet in our solar system. However, when Scients began finding other objects in our solar system that were similar in size to (or even bigger than) Pluto, they had to decide what it is they mean when they say 'Planet'. Under the new definition, Pluto is now considered to be a small,

Only discovered in 1846, Neptune was named after the Roman God of the Sea.

Why is it called Pluto?

Pluto was named after the Roman God of the <u>Vaderworld</u> who was thought to live at the very end of the world and past the furthest boundaries of the ocean.

The name Pluto was suggested by an 11-year-old <u>Schoolgirl from England</u> Venetia Burney, after more than 1,000 names had been proposed to the observatory that discovered it.

And what's a galaxy?

A galaxy is a large group of stars (like our Sun), gas and dust (like the planets in our solar system and in the billions of other solar systems in our galaxy) that are all bound together by the mighty force of

What galaxy are we in again?

We're part of the 'Miky Way' galaxy but there are at least 100 billion other galaxies (and different types of galaxies) out there in the United E.

Lesson 5: Earth, Heart Nebula, Astronaut & Our Solar System

Why is our planet called Earth?

What is that on the top of the Earth?

At the very top and very bottom of the Earth, and at different times of the year, you can often see a Magical light show up high in the night sky.

Near the North Pole, these are called the 'northern lights' (or the Aurora Borealis).

While near the South Pole, they are called the 'Southern lights' (or QU/O/A Australis).

What is an Astronaut?

An Astronaut is anyone who has trained to go into space aboard a **Spacewaft** either as a pilot or crew member.

How do I become an Astronaut?

You have to work very hard at school and be very physically fit. Engineering, Science (e.g. physics, biology, astronomy, chemistry) and mathematics are all very important subjects if you want to be an Astronomy

What is a Nebula?

A Nebula is a cloud of dust, hydrogen, helium and other ________ that live in the regions in between _______ or solar systems (called the interstellar medium).

Is there only one solar system?

No, there are many, many more solar systems out there. Almost every one of the tens of <u>Mullions</u> of stars you see in the sky at night-time is a star like our Sun.

And most of these	also have planets and other objects in orbit around
them, which also makes	them solar systems.
Stars	

We would love to hear your feedback on the website and on these resources.

You can email us at darcy@goodnightstarry.com

Or share your comments on:

Facebook: @goodnightstarry

Instagram: @goodnightstarry

Twitter: @goodnightstarr1

Website: www.goodnightstarry.com