SPACE ADVENTURE

ACTIVITY BOOK

AXEBUG FIRES UP YOUR CREATIVITY!

REAL LIFE ENGLISH

INTERDISCIPLINARY LEARNING

COMMUNICATION • COLLABORATION
CREATIVITY • CRITICAL THINKING
4C SKILLS

AXEBUG DIGITAL

CHAPTER 1

AXEBUG® COMICS

Original Name
AXEBUG SPACE ADVENTURE

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COMICS

EPISODE 1
THE ARGUMENT

1 Listen And Write

A. FLAT

B. ROUND

C. STUBBORN

D. SCORE YOU OFF

E. CREEPY CRAWLY

F. LOONY

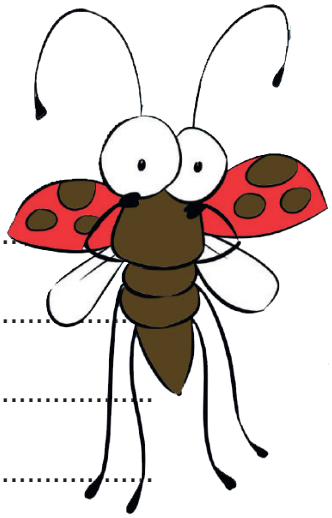
G. MASTER

H. STINKY SMELL

I. COME HELL OR HIGH WATER

J. CLIMB UP

2 Write the meanings of each word



A. Genius : A person intelligent enough.

B. Battle : A bad connection or engagement between military forces.

C. Mule : Very stubborn about something.

D. Argument : A negative discussion between two or more people.

E. Journey : Travel in a period of time.

F. Strange : Being unfamilar or not natural.

G. Interruption : The act of breaking a process in the middle of it.

H. Wise : A person with knowledge, smart enough.

I. Peaceful : Free from arguments and fights.

J. Cluttered : Disorder, messy.

K. Accept : To receive something that someone has given to you.

L. Flat : Something straight on a surface.

M. Eventually : Finally, at last.

N. Galaxy : A system of stars, planets and outer space.

O. Alien : Relating to creatures from another planet.

P. Shooting Star : A meteor.

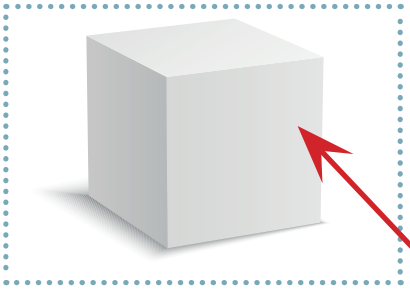
Q. Equator : An imaginary line drawn around the middle of the earth an equal distance from the North Pole and the South Pole.

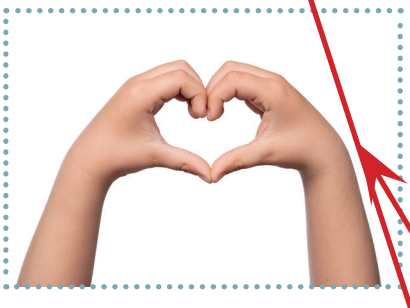
R. Snow Ball : A ball of snow pressed together in the hands, especially for throwing.

S. Spin : Rotating, turning around.

T. Capsule : The part of a spacecraft in which the people on it live.

3 Match the pictures with the correct words





FLAT

ROUND

CLUTTERED

CUBE

CONFUSED

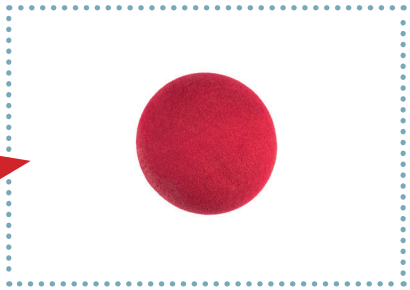
GENIUS

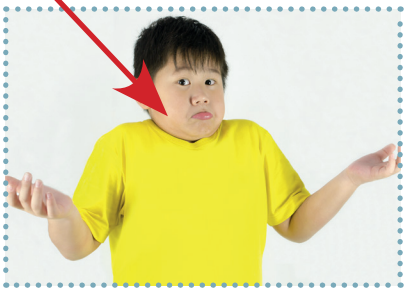
ARGUMENT

PEACEFUL

BUGGY EYES

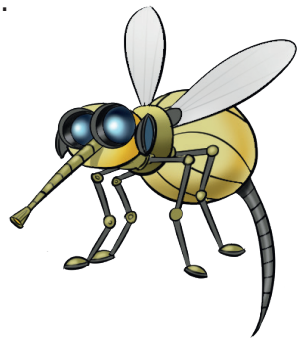
STINKY SMELL





4 Read Episode 1 again and Circle Yes / No

		✓	✗
1	Axebug lives alone in a hole in an old oak tree.	✓	
2	Axebug makes some incredible inventions.	✓	
3	Dung Beetle and Ladybug visit Axebug to see his new invention.		✗
4	According to Axebug, the world is a cube.		✗
5	Axebug's spaceship looks like a butterfly.		✗



5 Would you like to ask Axebug about the universe? Write down your questions and share them with the class. Try to find the answer together.

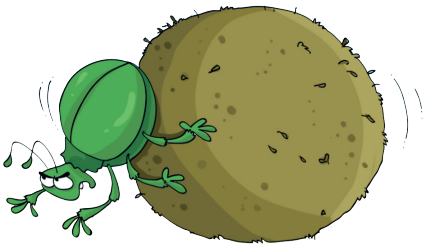
1 .....
.....

2 .....
.....

3 .....
.....

4 .....
.....

6 Answer the questions.



1. Where do Axebug, Dung Beetle and Ladybug live?
They live in the village of creepy crawly.

2. Who is the wisest man in the village?
Axebug is the wisest man in the village.

3. What is the disagreement between Dung Beetle and Ladybug?
They argue about the earth being flat or round.

4. Who do Dung Beetle and Ladybug visit? Why?
They visit Axebug to ask about their argument because he knows everything.

5. Is Axebug a knowledgeable and creative charecter? Why?
He is a knowledgeable man because he is good at proving what he knows best.

7 Debate time: Is the world flat or round?

8 Put the words in alphabetical order

1. CLIMB .....
2. EVENTUALLY .....
3. FLYING SAUCER .....
4. GENIUS .....
5. INTERRUPTION .....
6. INVENTION .....
7. LOONY .....
8. MULE .....
9. PEACEFUL .....
10. ROTATE .....
11. ROUND .....
12. SATELLITE DISH .....
13. SCORE YOU OFF .....
14. STRANGE .....
15. VILLAGE .....
16. WISE .....

PEACEFUL | SATELLITE DISH

WISE | FLYING SAUCER

ROTATE | EVENTUALLY

MULE | SCORE YOU OFF

GENIUS | INVENTION

ROUND | INTERRUPTION

LOONY | CLIMB

VILLAGE | STRANGE

9 Complete the dialogues with correct idiom or phrase

as stubborn as a mule - has a screw loose

just kidding - come hell or high water

Dung Beetle : The world is not round. I don't believe you.
Axebug : You never believe anyone.
You are **as stubborn as a mule**

Dung Beetle : He is a genius and he is the wisest man in town.
Axebug : I know but he **has a screw loose**
He says some crazy things.

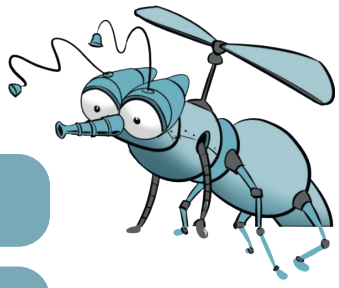
Dung Beetle : Wow! I can't believe the world is a cube.
Axebug : Of course, it is not.
I am **just kidding**

Dung Beetle : I don't want to travel to the space. I am scared.
Axebug : I will go and see the Earth, **come hell or high water**

10 Illustrate the idioms showing their meanings below.

As stubborn as a mule	Has a screw loose

11 Which word is different? Circle it with a marker.

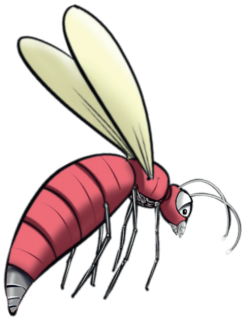


village - journey - genius - **interrupt**

calm - strange - peaceful - **ladder**

cockroach - **master** - dragonfly - mosquito

accept - **rhinosaurus** - disagree - dispute



12 Read the passage and answer the questions

FUTURE ME

My name is Jack and I am 12 years old. When I grow up, I want to be an astronaut. First, I think I will like being an astonaut. Because I'm very interested in space. Second, I like investigating about planets and new discoveries. My friends make fun of me everytime I start talking about the phases of moon. But I don't mind.

Science lessons are my favorite. I like having experiments with my teachers. I'm not a fan of plants or flowers. But studying hard to encyclopedias are my thing. I want to learn more about outer space, moon and the galaxy.

Scientists study the galaxy too. But I want to explore the life out of Earth, go beyond boundaries and inspire other people.

Answer TRUE or FALSE.

	✓	✗
1 Jack is twelve years old.	✓	
2 He wants to become a scientist.		✗
3 He likes investigating about plants.		✗
4 His friends like and support his future ideas.		✗
5 His aim is to find life in other countries.		✗

EPISODE 2
MEET AXEBUG

1 Listen And Write

A. SPACESHIP .....

B. CLIMBING UP A TREE .....

C. KIDDING .....

D. WIMPED OUT .....

E. ADVENTUROUS .....

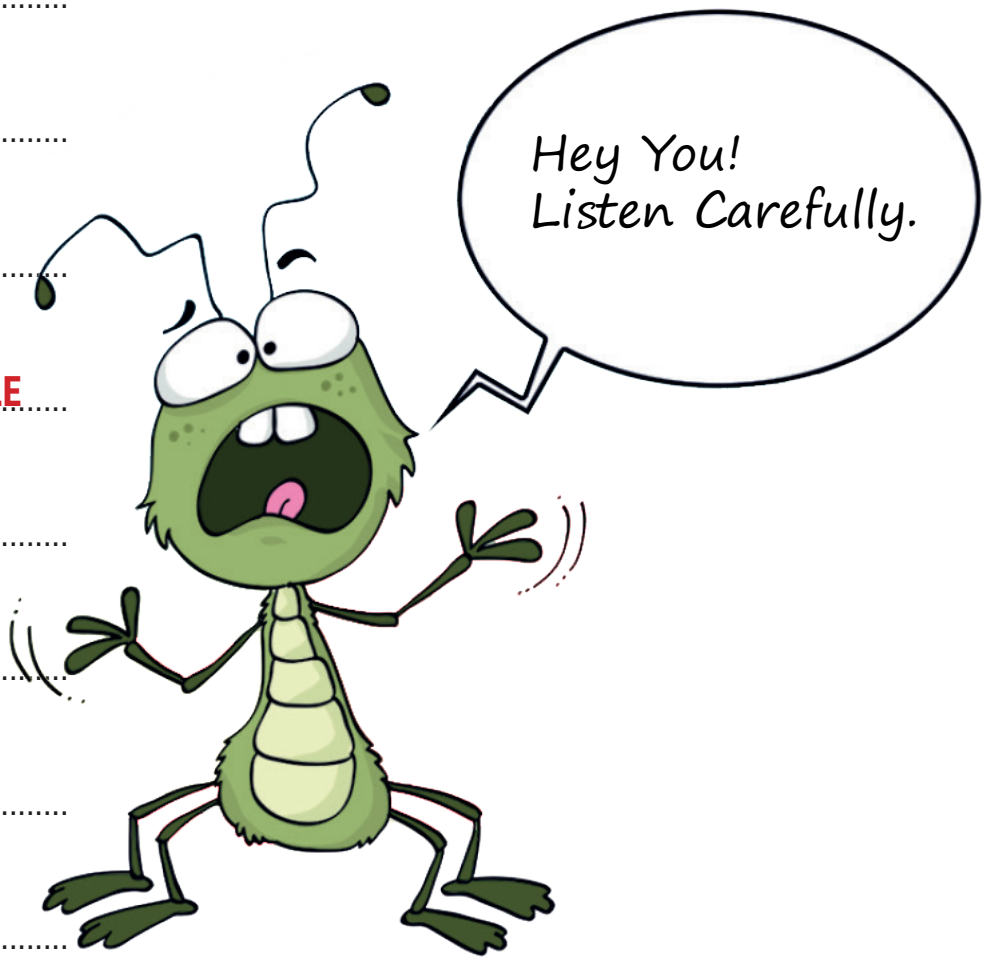
F. HUSTLE AND BUSTLE .....

G. HOUSEFLY .....

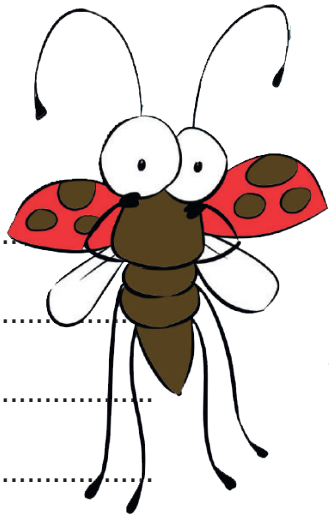
H. PERSONAL STUFF .....

I. THIS IS YOURS .....

J. HOLD TIGHT .....



2 Write the meanings of each word



A. Curious : To wonder about something

B. Prepare : To get ready.

C. Decision : The act of making up your mind.

D. Require : Asking needs.

E. Effort : Doing hard work mentally or physically.

F. Rumour : Something spoken truly or not truly.

G. Space Station : A vehicle in which people can travel round the earth, outside its atmosphere, doing scientific tests.

H. Observe : To watch carefully the way something happens or the way someone does something, especially in order to learn more about it.

I. Temperature : The measured amount of heat in a place or in the body.

J. Reflect : If a surface reflects light, heat, sound, or an image, it sends the light, etc. back and does not absorb it.

K. Mass : A large amount of something that has no particular shape or arrangement.

L. Density : The relationship between the mass of a substance and its size.

M. Size : How large or small something or someone is.

N. Carbon dioxide : The gas formed when carbon is burned, or when people or animals breathe out.

O. Bright : Full of light, shining.

P. Crater : The round hole at the top of a volcano, or a hole in the ground similar to this.

Q. Travel : To go from a place to another, a trip.

R. Experiment : A test done in order to learn something or to discover if something works or is true.

S. Safe Land : Not in danger or likely to be harmed.

T. Explore : To search and discover.

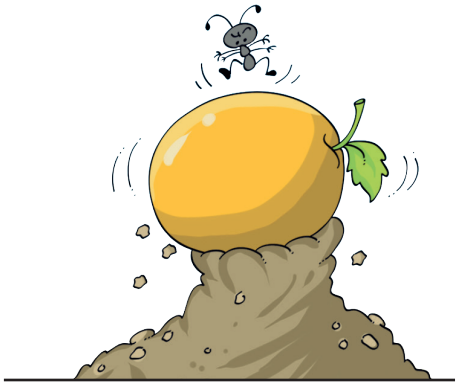
3 Draw your own spaceship using the tips below. Share your illustrations with your friends.

TIP 1	TIP 2	TIP 3	TIP 4
Use your time wisely	Don't forget to add some stars, planets etc. to the background.	Use your creativity. Be unique.	Be sure to work neatly and clean.

4 Read Episode 2 again and Circle Yes / No

		✓	✗
1	Axebug answers Dung Beetle and Ladybug's question.	✓	
2	Climbing up a tree is enough to see Earth's shape.		✗
3	Dung Beetle and Ladybug return to their home and never see Axebug again.		✗
4	There is a huge housefly in the middle of village.	✓	
5	You need space suits to travel to space.	✓	

5 Choose the correct answer



1. What does the spaceship look like?

a. A butterfly

b. A housefly

2. Why do they need to get on the spaceship?

a. They need to go to Mars.

b. They need to find answer to their questions.

3. What was the rumour about in the village of Creepy Crawly?

a. There is a spaceship that looks a like of housefly.

b. Axebug is moving to a new village.

4. Where did they meet in the morning?

a. At the town square.

b. At Axebug's house.

5. What do they wear to travel to space?

a. Jean and t-shirt

b. Space suit

6 Complete the dialogues with the correct idiom or phrase

Axebug : You should get on the spaceship to get your answer.

Dung Beetle : Can you please tell us ...What's got to do... with our question?

Axebug : Now, we are ready for the take off ...hold tight... guys.

Lady Bug : WooooHooo!

Dung Beetle : What time are we living?

Axebug : We are ready for the ...take off... get on the space ship now.

Dung Beetle : I like living in our peaceful village.

Axebug : Me too. It is far away from the ...hustle and bustle... of big cities.

7 Put the words in alphabetical order

1. ASTEROID
2. COMET
3. EARTH
4. GALAXY
5. JUPITER
6. MARS
7. MERCURY
8. METEOR
9. MOON
10. NEPTUNE
11. PLUTO
12. SATELLITE
13. SATELLITE DISH
14. STAR
15. SUN
16. VENUS

METEOR | SATELLITE DISH

JUPITER | ASTEROID

MARS | SATELLITE

STAR | NEPTUNE

PLUTO | COMET

MERCURY | EARTH

MOON | SUN

VENUS | GALAXY

8 Your Turn: Speak

Search some insects such as bugs. If you were going to space, which one of them would you take with you? Which super powers would they have? Why? Share it with the class.

9 Critical Thinking

Choose 5 things that you will take to spaceship for your space adventure and write reasons for each object.

1. .....
2. .....
3. .....
4. .....
5. .....

EPISODE 3
THE SOLAR SYSTEM

1 Listen And Write

A. OH MY GOSH .....

B. I FEEL DIZZY .....

C. HANG A LEFT .....

D. SPECTACULAR .....

E. REVOLVING .....

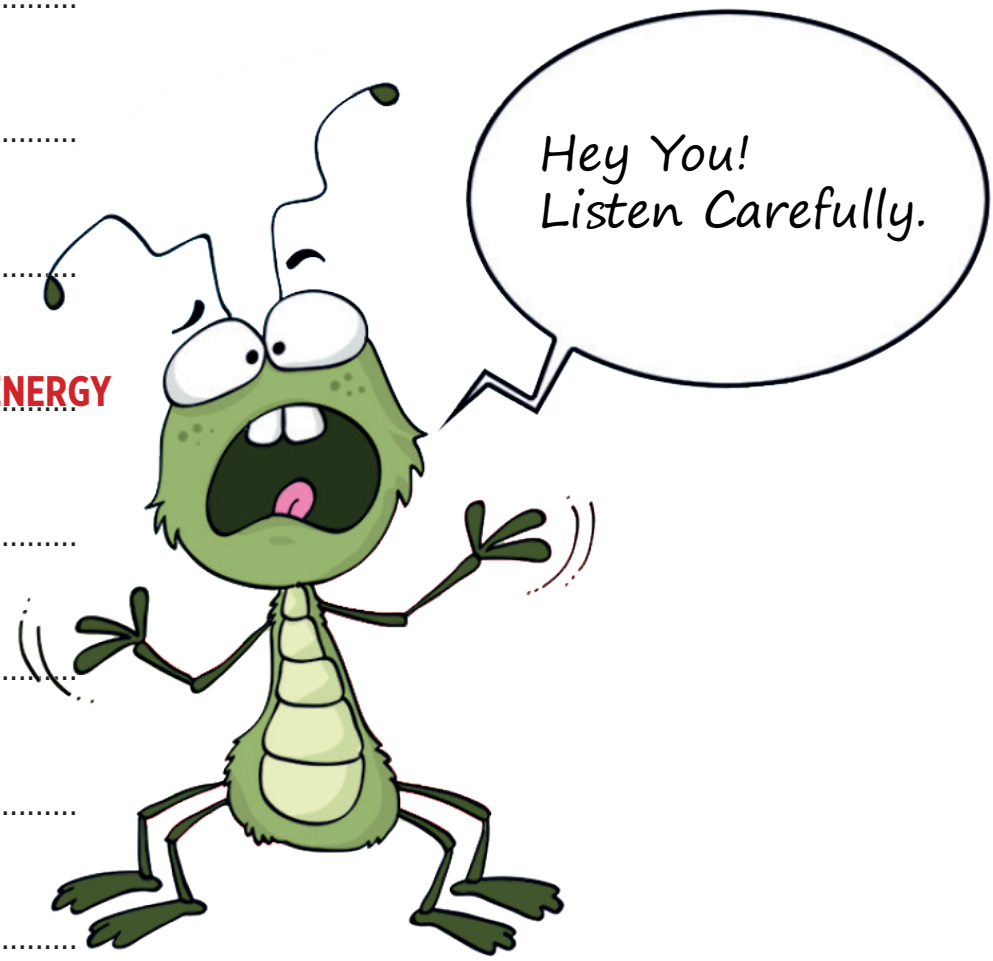
F. HEAT, LIGHT AND ENERGY .....

G. CENTER .....

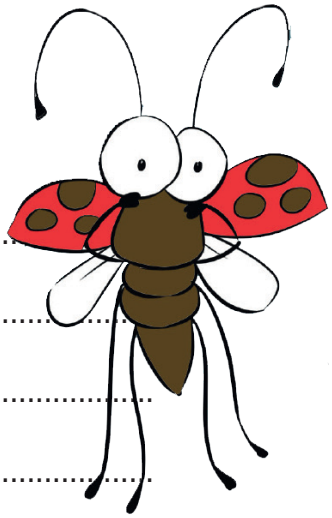
H. CLOSEST .....

I. IMPOSSIBLE .....

J. RAY .....



2 Write the meanings of each word



A. Clockwise : Rotation of the hands opposite like a clock.

B. Heat : High degree of hot.

C. Light : An energy that makes things visible.

D. Ray : A narrow beam of light seen.

E. Imagine : To create a fantasy of your own.

F. Spectacular : Something being very impressive or thrilling.

G. Freeze : A body or an object changing It's form to cold state, become ice.

H. Source : The origin of something or some place.

I. Axial Tilt : Angle between a planets axis.

J. Dizzy : About to fall because of feeling sense of whirl.

K. Beetle : An insect with a hard shell-like back.

L. Scientist : An expert who studies or works in one of the sciences.

M. Sleeping bag : A large, thick bag for sleeping in, especially when you are sleeping outside, for example in a tent.

N. Float : To stay on the surface of a liquid and not sink.

O. Matter : A situation or subject that is being dealt with or considered.

P. Particle : A word or a part of a word that has a grammatical purpose but often has little or no meaning.

Q. Microscope : A device that uses lenses to make very small objects look larger, so that they can be scientifically examined and studied.

R. Sink : To become understood or known.

S. Molecule : The simplest unit of a chemical substance, usually a group of two or more atoms.

T. Visible : Able to be seen.

3 Read Episode 3 again and Circle Yes / No

		Yes	No
1	Ladybug feels dizzy from the spaceship.	✓	
2	The Earth is located in the Saturn System.		✗
3	Venus is the closest planet to the Sun.		✗
4	Mercury rotates counter clockwise.		✗

4 Your Turn: Write

Would you want to be "The Sun"? If you were the Sun, what effects would you have on Earth?

5 Your Turn : Speak

If you had a chance to take a holiday in space, what type of holiday would it be? Why? Discuss in class.

CAMPING - BEACHSIDE - HOTEL ETC

6 Put the words in alphabetical order

1. ACTION
2. CENTER
3. CLOCKWISE
4. CLOSEST
5. COUNTER CLOCKWISE
6. CURIOUS
7. EARTH
8. FASTEST
9. HOTTEST
10. RAY
11. SATELLITE
12. SECOND
13. SMALLEST
14. SPECTULAR
15. TEMPERATURE
16. VENUS

ACTION	COUNTER CLOCKWISE
RAY	EARTH
VENUS	TEMPERATURE
CLOSEST	SPECTULAR
CURIOUS	CENTER
FASTEST	SATELLITE
SMALLEST	CLOCKWISE
SECOND	HOTTEST

7 Complete the crossword

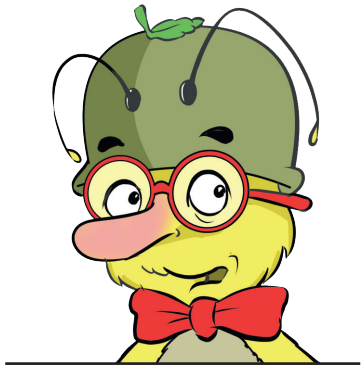
HEAT - ENERGY - STAR - RAY - EARTH - LIGHT

TILT - HOT - FLAT - FLY

A	G	Z	X	D	S	V	V
Z	F	H	E	A	T	L	R
C	O	V	X	I	A	I	A
B	N	E	N	E	R	G	Y
M	F	A	A	N	M	H	X
F	I	R	F	L	A	T	F
G	Z	T	I	L	T	M	L
X	Y	H	O	T	X	F	Y

8 Read Episode 3 again
Complete sentences with the correct word

1. The Earth is located in the **Solar System**
2. The solar system has the Sun and the planets **revolving** around it.
3. **Sun** is the source of heat, light and energy.
4. The Sun is **1.300.000 time** time bigger than Earth.
5. The Sunlight takes **8 minutes** minutes to reach Earth.



9 Match the words with the correct definition

1. Planet	**A.** Spending too much time in hot sunshine.
2. Satellite	**B.** Completely dark.
3. Sunburn	**C.** liquid becomes solid because of low temperature.
4. Pitch-black	**D.** Move in a circle on a central axis.
5. Revolve	**E.** The Sun and all the planets that go round it.
6. The Solar System	**F.** A round object in space that moves around a star.
7. Freeze	**G.** An object which has been sent into space in order to collect information or to be part of a communication system.

10 Think and Discuss

1. Why do we need the Sun?
2. Explain, why we need the Sun in the space below.
3. Use the words in the box to help you. Share your ideas with your friends.

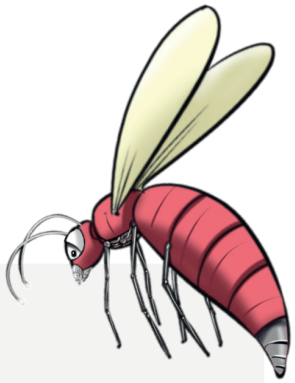
HEAT - GROWING - PLANTS - WEATHER - WARM - LIFE - LIGHT

ENERGY - HAPPY - ANIMALS - HOLIDAY - ENERGY

11 Complete the chart about the solar system and share with your friends.

What I know	What I want to know	What I've learnt

12 Use the QR code to watch the video and complete B-D-A viewing chart



BEFORE VIEWING

List everything you know about the Sun before viewing the video.

DURING VIEWING

Briefly note new information you hear and see during viewing.

AFTER VIEWING

Write a brief summary / Write 3 possible Quiz Questions

EPISODE 4
THE PLANETS

1 Listen And Write

A. MERCURY .....

B. RESEARCH .....

C. TEMPERATURE .....

D. AXIAL TILT .....

E. HABITABLE .....

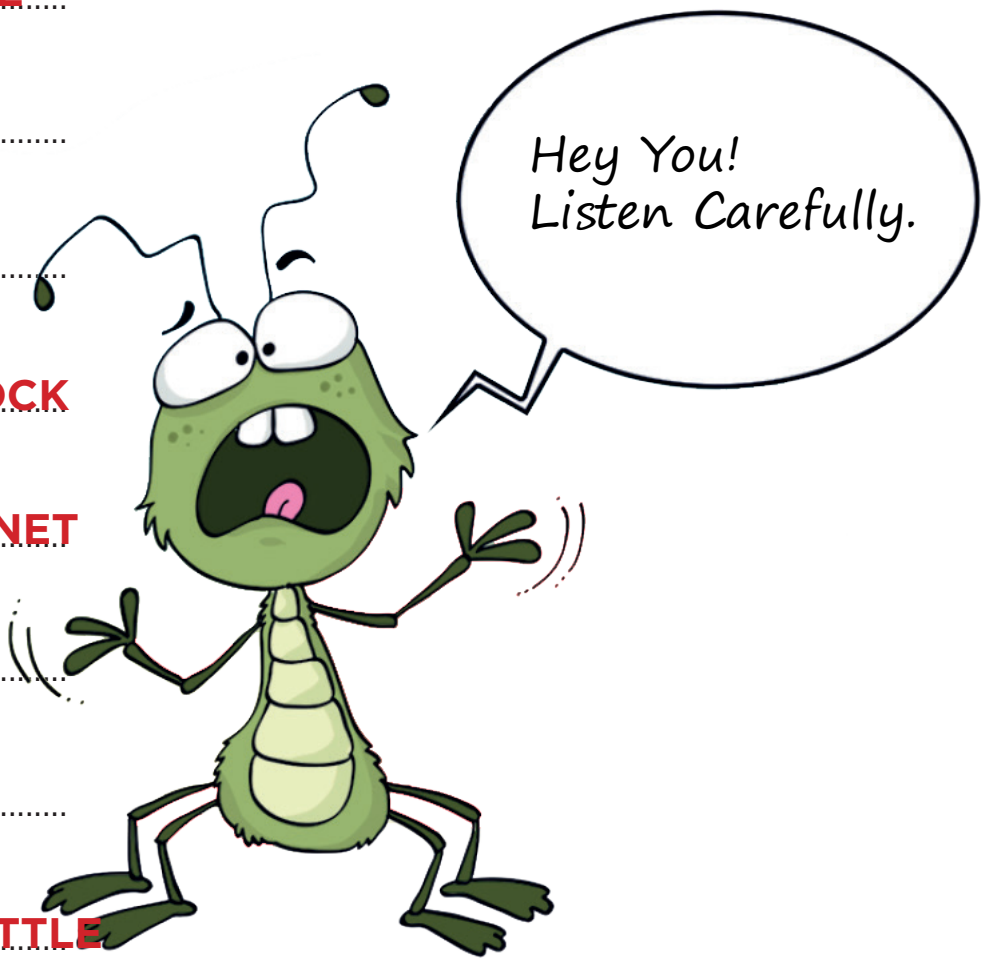
F. DUST AND ROCK .....

G. THE RED PLANET .....

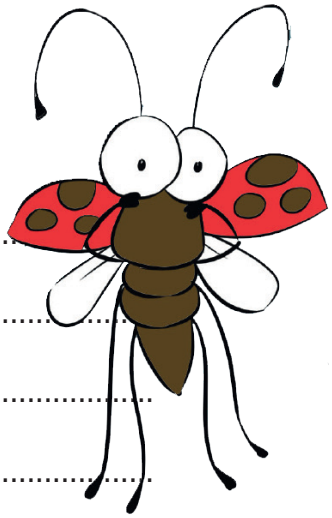
H. SATELLITE .....

I. ROTATION .....

J. ZOOM IN A LITTLE .....



2 Write the meanings of each word



A. Unknown : Not found, discovered or known.

B. Approximately : More or less.

C. Rotation : The act of rotating.

D. Core : The central part of a living thing, fruit, which contains It's seeds.

E. Exist : To be living, surviving.

F. Habitable : Can be lived in or survive.

G. Cancel : Call of a plan or decision about something.

H. Amazing : A sudden wonder of something.

I. Rock : A solid large or small sized type of stone on a hill or a mountain.

J. Discover : To find information, a place, or an object, especially for the first time.

K. Life Form : Any living thing.

L. Universe : The universe is all of space and time and their contents, including planets, stars, galaxies, and all other forms of matter and energy.

M. Moon Base : The round object that moves in the sky around the earth and can be seen at night.

N. Rocket Launch : To send off, usually used for planes of air crafts.

O. Astronomy : The scientific study of the universe as a whole and of objects that exist naturally in space, such as the stars.

P. Mathematics : The study of numbers, shapes, and space using reason and usually a special system of symbols and rules for organizing them.

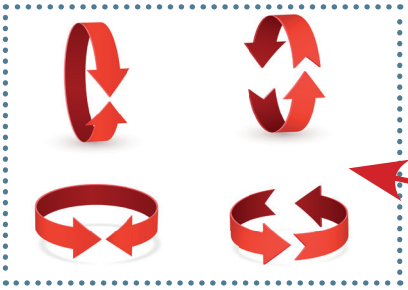
Q. Science : The study of the physical world based on experiments and facts.

R. Technology : The practical, especially industrial, use of scientific discoveries.

S. Natural Disaster : A natural event such as a flood, earthquake, or tsunami that kills or injures a lot of people.

T. Storm : An extreme weather condition with very strong wind, heavy rain, and often thunder and lightning.

3 Match the pictures with the correct words



ROCK

CALCULATION

OUTER SPACE

LIQUID

DUST

CONTROL PANEL

FUEL

SUNLIGHT

ICE

ROTATE

4 Read Episode 4 again and Circle Yes / No

		✓	✗
1	The biggest planet in the Solar System is Venus.		✗
2	Mars has two satellites. They are called **Phobos** and **Deimos.**	✓	
3	Venus is the hottest planet in the Solar System.	✓	
4	Neptune is the furthest planet to the Sun.	✓	
5	Jupiter is the smallest planet in the Solar System.		✗

5 Your Turn: Write

They are selecting astronauts to travel to ISS. You really want to be the one to travel to space. You need to write a letter to Elon Musk to tell him why he should choose you. The most creative letter will be elected.
Good Luck!

6 Put the words in alphabetical order

1. ALIEN LIFE
2. BLACK HOLE
3. CORE
4. COUNTDOWN
5. DISTANCE
6. EMERGENCY
7. EXPLODE
8. FIRE
9. FRICTION
10. GAS
11. ICE
12. MARTIANS
13. RING
14. SCIENCE FICTION
15. UNKNOWN
16. VACUUM

EXPLODE | SCIENCE FICTION

MARTIANS | COUNTDOWN

FIRE | EMERGENCY

VACUUM | BLACK HOLE

ICE | DISTANCE

GAS | ALIEN LIFE

CORE | UNKNOWN

FRICTION | RING

7 Exploring our solar system.

Complete the chart about the eight planets of our solar system below using your research skills.

Planet Name	Position From The Sun	Revolution Time (Length of Year Earth Days)	Rotation Time	Known Satellites	Distance From The Sun
Mercury	1st	58.6 days	87.97 days	0	57.9 million km
Venus	2nd	243 days	224.7 days	0	108.2 million km
Earth	3rd	0.99 days	365.26 days	1	149.6 million km
Mars	4th	1.03 days	1.88 years	2	227.9 million km
Jupiter	5th	0.41 days	11.86 years	80	778.3 million km
Saturn	6th	0.45 days	29.46 years	83	1,427.0 million km
Uranus	7th	0.72 days	84.01 years	27	2,871.0 million km
Neptune	8th	0.67 days	164.79 years	14	4,497.1 million km

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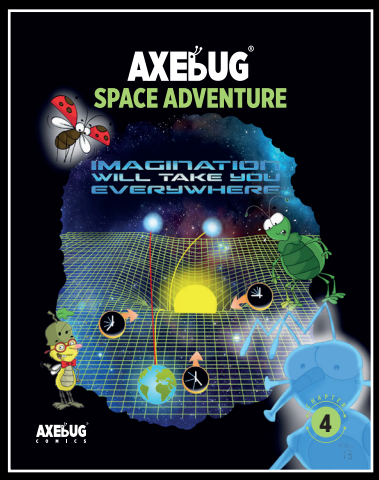

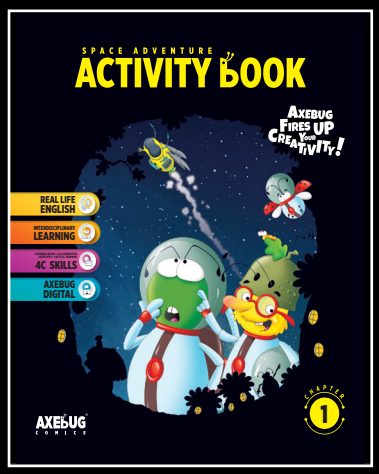

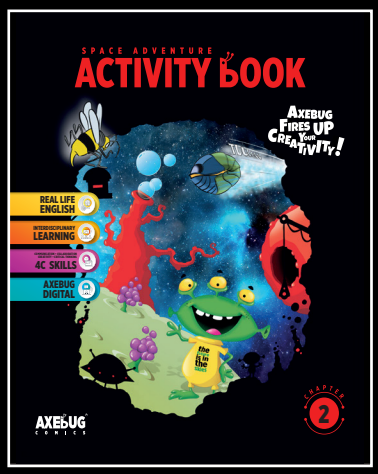

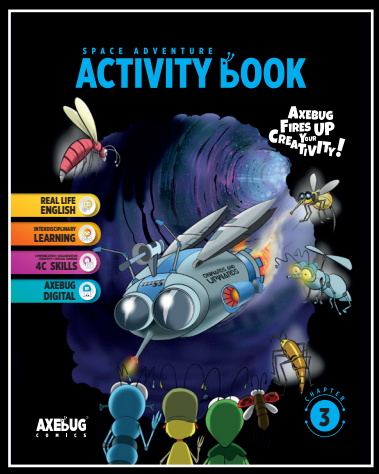

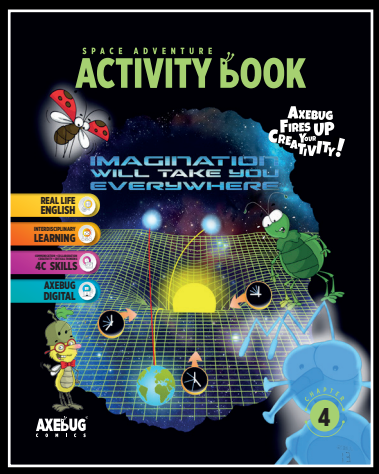

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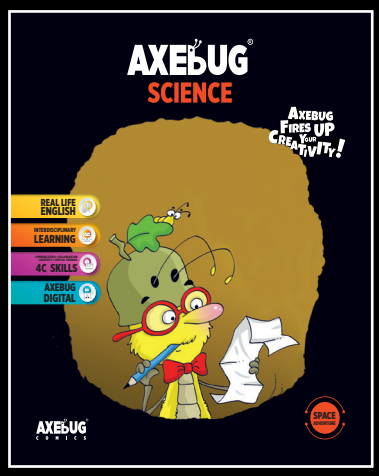

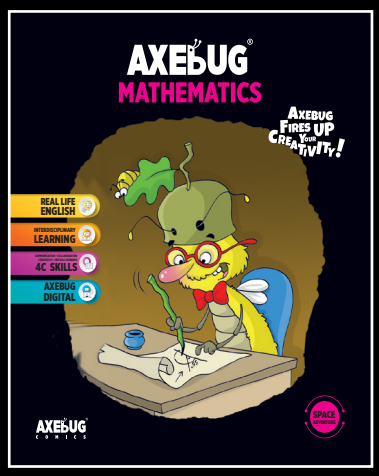

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