SPACE ADVENTURE

ACTIVITY BOOK

AXEBUG FIRES UP YOUR CREATIVITY!

IMAGINATION WILL TAKE YOU EVERYWHERE

REAL LIFE ENGLISH

INTERDISCIPLINARY LEARNING

COMMUNICATION • COLLABORATION
CREATIVITY • CRITICAL THINKING
4C SKILLS

AXEBUG DIGITAL

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COMICS

Original Name
AXEBUG SPACE ADVENTURE

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COMICS

EPISODE 13
WHAT IS TIME?

1 Listen And Write

A. SUPPOSE TO .....

B. ONE TENTH .....

C. ENLIGHTEN .....

D. PROBABLY .....

E. SMART .....

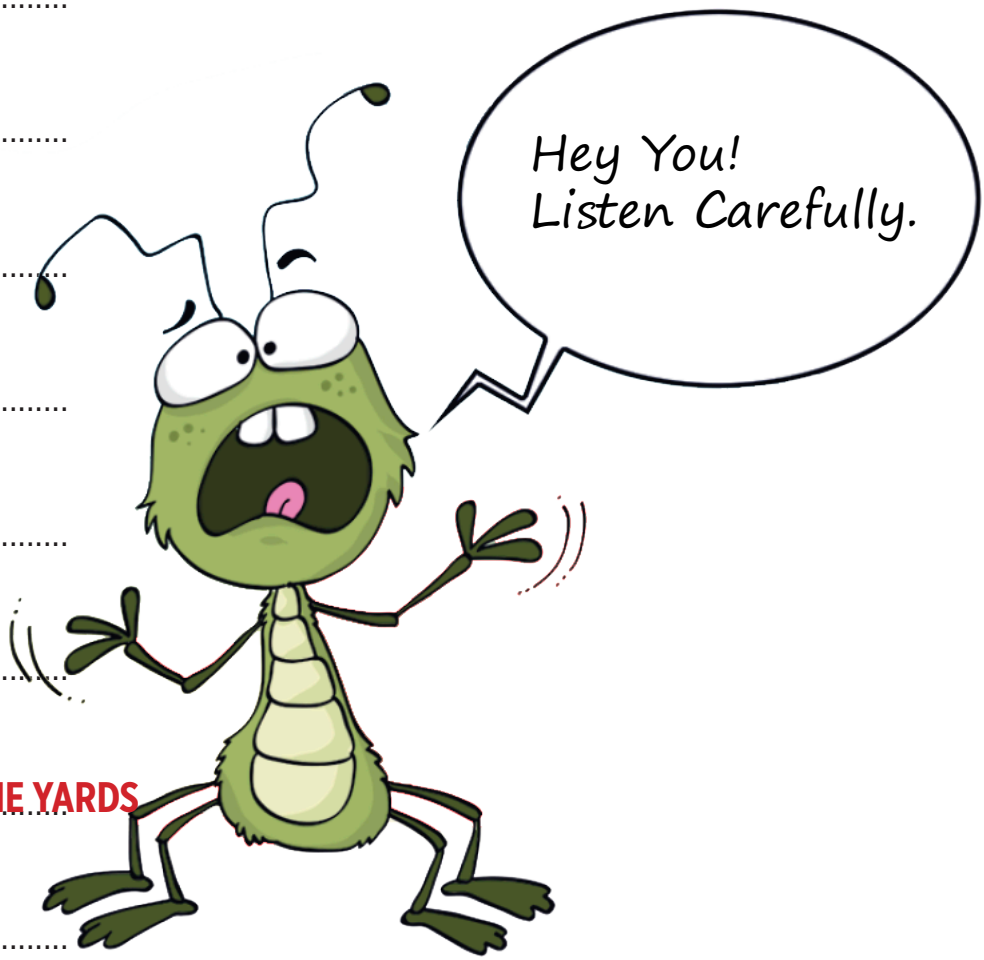
F. BRAVE .....

G. SCIENCE .....

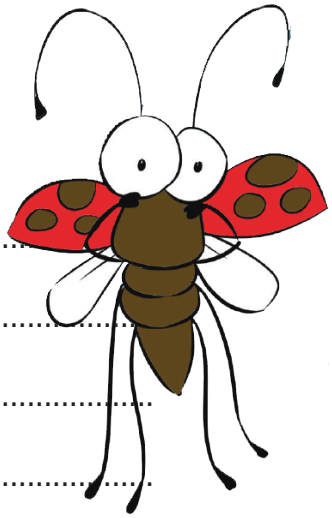
H. ESSENTIAL .....

I. GO THE WHOLE NINE YARDS .....

J. HAVING BRAINS .....



2 Write the meanings of each word



A. Eyes wide open : To look carefully.

B. Coordinates : A group of numbers used to find the position of a point.

C. Furthest : Very far away.

D. Take off : A plane going up.

E. Enlighten : Give a brief explanation about something.

F. Theory : An idea or a belief based on some sort of proof.

G. Achieve : To accomplish, complete.

H. Courage : Being brave, fearless.

I. Essential : Free from arguments and fights.

J. Vital : Very important.

K. Tick : A sound that clocks make in every second.

L. Easy Peasy : An informal way of saying something very easy.

M. Specific : Dealing with one type of thing.

N. Sense : A strong feeling.

O. Decimal : Relating to or expressed in a system of counting based on the number ten

P. Massive : Extra large, very big.

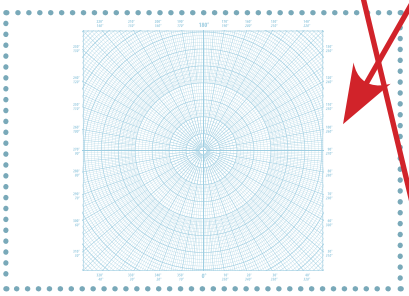
Q. Celestial body : Any natural object outside of the Earth's atmosphere.

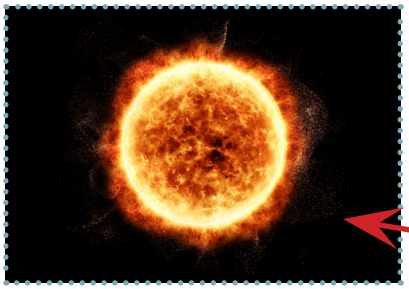
R. Asterism : An asterism is an observed pattern or group of stars in the sky.

S. Chromosphere : A chromosphere is a layer of a star's atmosphere.

T. Dark Matter : A component of the universe whose presence is discerned from its gravitational attraction rather than its luminosity.

3 Match the pictures with the correct words





COURAGE

ONE TENTH

COORDINATES

PERCENT

TAKE OFF

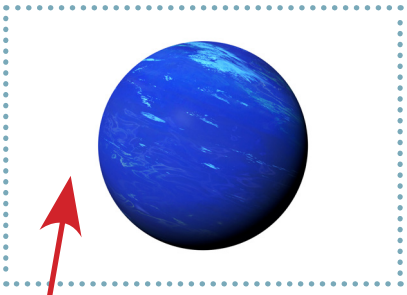
SCIENCE

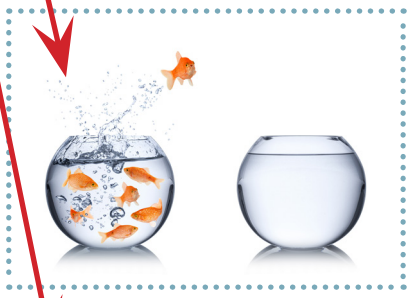
DISCIPLINARY

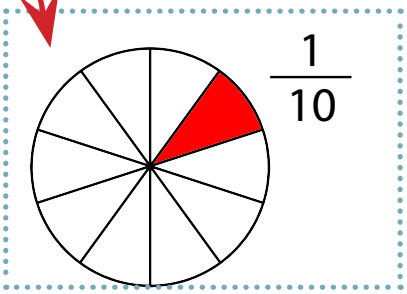
MASSIVE

CHROMOSPHERE

NEPTUNE

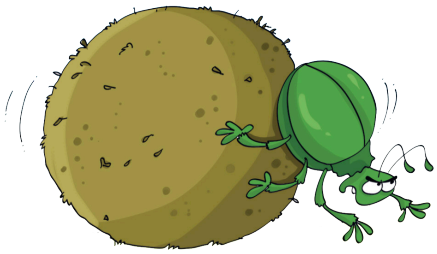


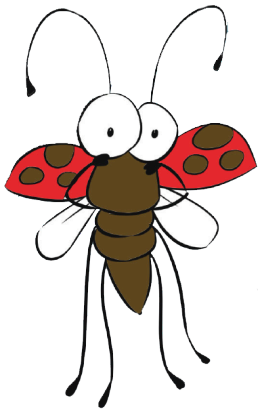


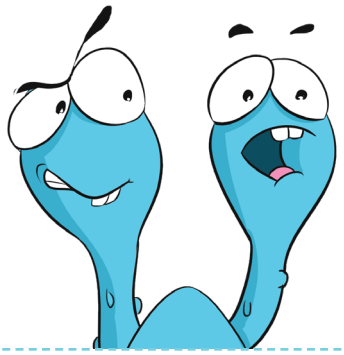


4 The Guess Game

Play in pairs. Guess the animal or character. The person who will guess the card will ask questions later. Ex. Is it tall? Does it have two eyes? Does it have antennas?







5 Read Episode 13 again and Circle Yes / No

	✓	✗
1 Axebug is talking about space and time.	✓	
2 Ladybug is very bad at mathematics.		✗
3 Dung Beetle is scared.	✓	
4 Dung Beetle tries to understand the theory of relativity.	✓	

6 Your Turn : Write

Imagine you were in space for an hour. Write a story about your 1 hour in space. Were you in a ship or a galaxy? What did you do? Did you meet anyone etc.

7 Answer the questions according to Axebug

1. Why does Dung Beetle say 'Easy peasy'?
   He thinks the time answer is very easy.

2. What does Ladybug calculate?
   She calculates the total time of travel.

3. What does Robug13 warn them about?
   Watching their back and being careful.

4. Why is being knowledgeable important?
   When you are wise enough, you can solve every problem with your knowledge.

8 Your Turn: Speak

Tell us a brave moment you had in your life. Where did it happen? What did you do? How did you act? Share it with the class

9 Match the cause to the right effect. Share it with the class

CAUSE	EFFECT
IT WAS RAINING CATS AND DOGS	I FEEL A LITTLE UNDER THE WEATHER
SALLY AND JOHN ATE EVERYTHING ON THE TABLE	WE USED OUR UMBRELLA
I PLAYED WITH SNOW A LOT THAT DAY	SHE WILL PRACTICE TANGO
ANDY'S FATHER TOOK HER TO THE DANCING STUDIO	I'M GOING TO CALL IT A DAY
I WORKED SO HARD FOR THIS ASSIGNMENT	HEY COULDN'T SLEEP OF STOMACHE ACHE

10 Fact or opinion. Choose and write

FACT IS SOMETHING THAT CAN BE PROVEN, IF IT'S TRUE OR NOT. AN OPINION IS ABOUT SOMEONE'S FEELINGS TOWARDS A CERTAIN TOPIC.

I LOVE WEARING MY SPACE SUIT

Opinion

THE TEMPERATURE IS 12 DEGREES IN SPACE

Fact

WE ARE PLANNING TO LAND VERY SHORTLY

Opinion

NEUTRON STARS CAN SPIN 600 TIMES PER SECOND

Fact

I LIVE IN THE VILLAGE OF CREEPY CRAWLY

Fact

I LOVE TO READ BOOKS AND RESEARCH ABOUT SPACE

Opinion

11 Match the words to their meanings.

ADVENTURE	Coming into the view
TOWN SQUARE	An exciting experience or activity
HOUSEFLY	A part of a technical device that helps regulate computer operations
APPEAR	A public space area
CONTROL PANEL	A small animal often found outdoors

12 Your Turn : Write

Did you ever go somewhere with coordinates or using navigation? How did you go? Did you face any challenges? Why?

EPISODE 14

THEORY OF RELATIVITY

1 Listen And Write

A. ANOTHER .....

B. OPINION .....

C. MOTION .....

D. PHILOSOPHER .....

E. CHEMISTRY .....

F. ELEMENT .....

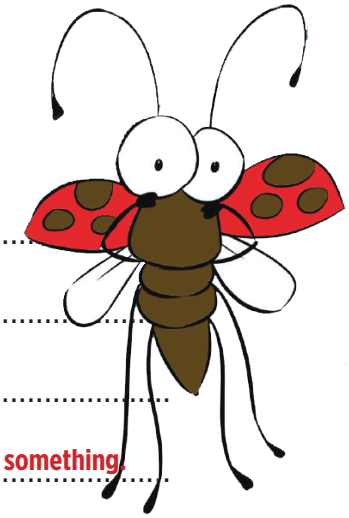
G. FLOW OF TIME .....

H. GRAVITIONAL FORCE .....

I. ZERO .....

J. ESTABLISH .....

2 Write the meanings of each word



A. Dozens : A set of 12 things.

B. Shocked : Very amazed or upset about something.

C. Motion : The act of moving.

D. Wonder : To ask yourself questions or express a wish to know about something.

E. Relationship : The way in which two things are connected.

F. Building : To make a large structure of something.

G. Zodiac : An area of the sky having twelve groups of stars that people think effects your personality.

H. Zeppelin : An old air ship.

I. Gravity zone : The force that makes objects fall toward the earth, or toward some other large object such as a planet or a star

J. Twin : One of a child born at the same time, given birth by the same mother.

K. Paradox : A statement having two parts that are opposite of each other.

L. Point of view : Looking at an issue more differently.

M. Second : One sixth of a minute, next to the first in place or time.

N. History : A specific time before present time.

O. Ancient : In very old times, before.

P. Geometry : Part of mathematics that focuses on the relationship between lines and angles.

Q. Philosopher : A person who tries to explain scence, maths, knowledge and beliefs.

R. Academy : A school that teaches a specific skill.

S. Per : Used when expressing rates, prices, or measurements to mean "for each".

T. Atomic number : The number of protons of an atom.

3 Write the numbers that come before or after
Try to say the words outloud. Check your answers with your friends

BEFORE		AFTER
67	68	68
71	72	73
1233	1234	1235
4586	4587	4587
7653	7654	7655
8212	8213	8214
43	44	45
66	67	68
11	12	13
79999	89000	89001
87121	87122	87123
32454	32455	32456
54325	54326	54327
445	446	447
777	778	779

4 Read Episode 14 again and Circle Yes / No

		✓	✗
1	Axebug is giving Information about nature.	○	⊗
2	Dung Beetle is asking about an Ancient hornet.	○	⊗
3	Einstein said that time runs slower when gravitional force increases.	✓	○
4	Your heart rate will slow down near a blackhole.	✓	○

5 Your Turn : Write

Write about the relationship between Axebug and his friends.
Why is he helping them understand about space? How do you help your friends. Give examples. Share it with the class.

6 Your Turn : Speak

You only have one minute to make sentences using all the words below.
The sentences need to be related to eachother like a story.

CLOCK - HISTORY - WONDER - ACADEMY

COMPLETE - TWIN - ZERO - IN THE POCKET

7 Put the words in alphabetical order

1. ANCIENT
2. ATOMIC NUMBER
3. CHEMISTRY
4. DOZENS
5. DUCKS IN A ROW
6. ELEMENT
7. ESTABLISH
8. GEOMETRY
9. HISTORY
10. INSPIRE
11. OPINION
12. SECOND
13. THEORY
14. VIBRATION
15. ZODIAC
16. ZOO

ZOO | INSPIRE

SECOND | THEORY

VIBRATION | OPINION

GEOMETRY | DUCKS IN A ROW

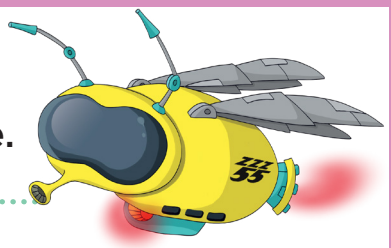
ESTABLISH | DOZENS

ANCIENT | HISTORY

ELEMENT | CHEMISTRY

ATOMIC NUMBER | ZODIAC

8 Read and circle the action verbs from each sentence. Some sentences can have more than one.



1. The coordinates are **seen** on the monitor.
2. Science is very important to **understand** matters indeed.
3. Cosmic rays are energetic protons that **move** in space.
4. The plane will **take off** in a few minutes.
5. Axebug is brave to **face** danger and **ready to be** successful.

9 Your Turn: Speak

If you wanted to establish an Academy about science or space, what would it look like? Draw it. Share your thoughts with the class.

10 Your Turn: Write

Find the sums.

A. 2559 + 4000 = 6559

B. 7000 - 6533= 467

C. 7634 +22 = 7666

D. 250 x 2 = 500

E. 1000 + 3450 = 4450

F. 3456 x 3 = 10368

G. 3087 + 3028= 6115

H. 1087 + 6557 = 7644

EPISODE 15
PINK & FLOYD

1 Listen And Write

A. STABILIZE .....

B. DIMENSION .....

C. FORMULA .....

D. TIME DILATION .....

E. CLARIFY .....

F. WHEREAS .....

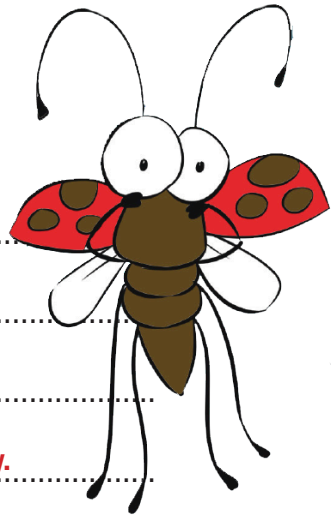
G. PARTICLES .....

H. UNIVERSAL SCALE .....

I. FAST AS GREASED LIGHTNING .....

J. A PENNY FOR YOUR THOUGHTS .....

2 Write the meanings of each word



A. Difference : Not similar, unlike.

B. Nearest : Nearby, Closest.

C. Tachyon : A hypothetical particle that travels faster than light.

D. Statement : Declaration, something that someone says or writes officially.

E. Formula : Recipe, a mathematical rule expressed in a set of numbers and letters..

F. Particles : An extremely small piece of something such as dust, dirt, or sand.

G. Ghost : The spirit of a dead person.

H. Second : One sixth of a minute, next to the first in place or time.

I. Year : 365 days, time for Earth completes its rotation around Sun.

J. Blazing Fast : Very hot, fast, or powerful.

K. Andromeda : A galaxy closest one to Milky way.

L. Forget : Not be able to remember.

M. Time travel : A travel through time.

N. Solar Wind : The solar wind is a stream of charged particles released from the upper atmosphere of the Sun, called the corona.

O. Equinox : Either of the two times during the year when the sun crosses the equator and day and night are of equal length, about March 21st and September 23rd.

P. Autopilot : A device that keeps aircraft, spacecraft, and ships moving in a particular direction without human involvement.

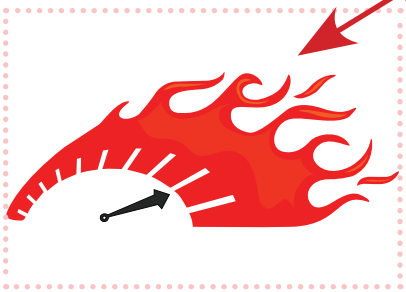
Q. Biosatellite : A device sent up into space to travel around the Earth or another planet, etc.

R. Moon Walk : To walk on the surface of the moon.

S. Rocket Science : Rocket science is a colloquial term for aerospace engineering.

T. Ceres : Ceres is a dwarf planet in the asteroid belt between the orbits of Mars and Jupiter.

3 Match the pictures with the correct words



JUMP

BLAZING FAST

PARTICLES

CERES

AUTOPILOT

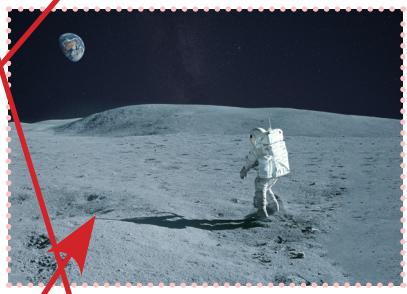
HUSH

HEADLIGHTS

SPEND

STABILIZE

MOONWALK



4 Read Episode 15 again and Circle Yes / No

		✓	✗
1	They Imagined that Pink and Floyd live on Earth.	✓	
2	Light speed travels at 300.000 km per second.	✓	
3	"A penny for your thoughts" mean giving money to people.		✗
4	Ceres is the nearest galaxy to Milkyway.		✗

5 Your Turn : Write

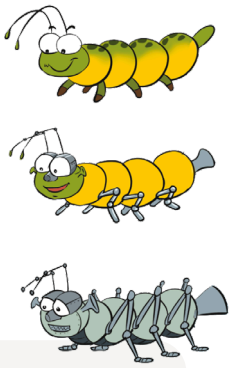
Write three fun facts about Ladybugs. If you don't already know, research. Share with the class.

6 Your Turn : Speak

Do headlights change according to the car brand? Do you think they look like eachother? Why? Name the car brands you know.
Discuss it in the classroom.

7 There are some Information given about animals below Write if they are Facts or Opinions

STATEMENT	FACT OR OPINION
BEES Male bees in the hive are called drones.	FACT
BUGS Mosquitos can drink up to three times their weight in blood.	FACT
DRAGONFLIES Dragonflies love ponds on a warm sunny day.	OPINION
CATERPILLARS Children put caterpillars in a vase and play with it.	OPINION
SNAKES Snakes swallow their food whole.	FACT
CRICKETS Old people feel threatened by crickets.	OPINION
WORMS Worms have five hearts.	FACT
FROGS Frogs seem friendly when they jump.	OPINION



8 Your Turn : Speak

Do you think Axebug likes Science, Maths or Space more? Why? Why not? Give some examples.

9 Put the words in alphabetical order

1. AGAINST
2. AMAZING
3. ANDROMEDA
4. CLARIFY
5. CURVE
6. FORMULA
7. GHOST
8. HUSH
9. NEAREST
10. PARTICLES
11. POSSIBLE
12. POSSIBLE
13. STABILIZE
14. STATEMENT
15. TACHYON
16. TIME DILATION

HUSH | STABILIZE

ANDROMEDA | POSSIBLE

POSSIBLE | CLARIFY

CURVE | AGAINST

NEAREST | STATEMENT

AMAZING | TACHYON

PARTICLES | TIME DILATION

GHOST | FORMULA

10 **Make a six page booklet about States of Matter. Go through your science books for Information. Neatly, cut papers and draw out on your booklet. Here is a couple of tips for you.**

- Make a cover page. Use your drawing skills to write a banner.
- Solid page. Write down some Information you know about solid matter. Give some examples.
- Liquid page. Write down some Information you know about liquid matter. Give some examples.
- Gas Page. Write down some Information you know about gas matter. Give some examples.
- Don't forget to make your Project neat and presentable. Teacher will score your booklet according to the chart below.

COVER PAGE INCLUDING NAME BANNER DATE	10
SOLID PAGE INCLUDING 3 FACTS	20
LIQUID PAGE INCLUDING 3 FACTS	20
GAS PAGE INCLUDING 3 FACTS	20
PICTURES DRAWN PRESENTATION BEING NICE	20
NEAT AND HANDRITING MUST BE CLEAR	10
TOTAL SCORE	.../100

11 Cut out the phases of moon tiles and glue them next to their meanings

- HALF MOON
- WANING GIBBOUS
- LAST QUARTER
- FIRST QUARTER
- WAXING CRESCENT
- NEW MOON

- Rises at midnight, transits at sunrise, sets at noon.
- It rises after sunset, transits after midnight, sets after sunrise.
- Rises after midnight, transits after sunrise, sets after noon.
- It appears when the Moon is on the opposite side of Earth from the Sun.
- Rises at noon, transits at sunset, sets at midnight.
- It occurs when the moon is at a 90 degree angle to the Earth and Sun.

EPISODE 16

MASS AND VOLUME FORCE

1 Listen And Write

A. LIGHTSPEED

B. HEADLIGHTS

C. HYPERNOVA EXPLOSION

D. FLAT

E. DRIVER

F. UNIVERSE

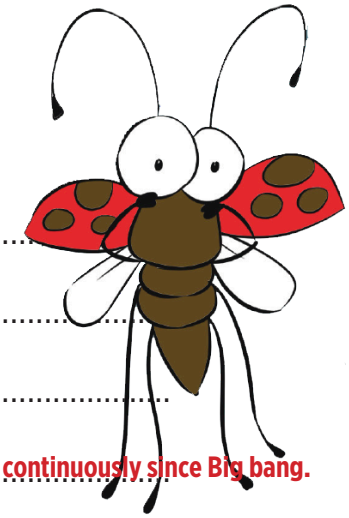
G. CREATURE

H. DESTROY

I. TOO MUCH TO SINK IN

J. URGENTLY

2 Write the meanings of each word



A. Flat : Something straight on a surface.

B. Sheet : A large, thin, flat, usually rectangular piece of something.

C. Spinning : Rotating, turning around.

D. Expanding Universe Model: A theory that expains universe is growing continuously since Big bang.

E. Destroy : Crash, wipe out

F. Ending : Conclusion, result.

G. Urgently : Immediately.

H. Creatures : Any large or small living thing that can move independently.

I. Warp Driver : A theoretical engine type which allows space ships travel faster than light.

J. Hyper Space : Hyperspace was an alternate dimension that could only be r eached by traveling at or faster than the speed of light.

K. Atom : The smallest unit of any chemical element, consisting of a positive nucleus surrounded by negative electrons. Atoms can combine to form a molecule.

L. Galactic Disc : A galactic disc (or galactic disk) is a component of disc galaxies, such as spiral galaxies and lenticular galaxies.

M. Gas Giant : A gas giant is a giant planet composed mainly of hydrogen and helium.

N. Volume : The amount of space that is contained within an object or solid shape.

O. Hypernova Explosion: Biggest explosition type in the universe, after explosion black holes occur.

P. Pulsar : A very small dense (= heavy in relation to its size) star that sends out radio waves.

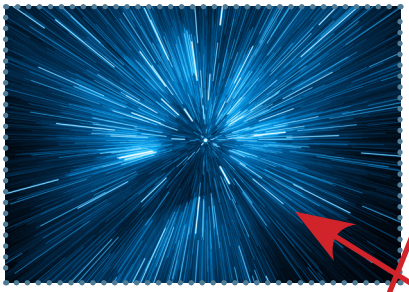
Q. Robot : A machine controlled by a computer that is used to perform jobs automatically

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

S. White Dwarf : A small star that is not very bright, but is very dense (= contains a lot of matter).

T. Total Eclipse : A total eclipse occurs when the dark silhouette of the Moon completely obscures the intensely bright light of the Sun, allowing the much fainter solar corona to be visible.

3 Match the pictures with the correct words



ENDING

STUCK

SHEET

CAPTAIN

CONVERSATION

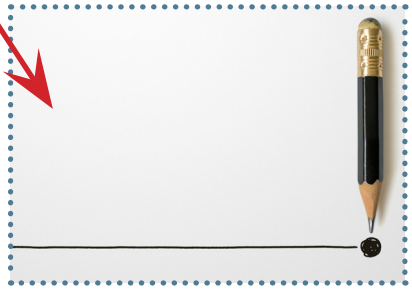
DRIVER

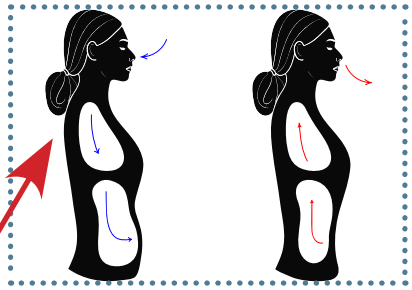
WARP DRIVER

BREATH

SENSOR

RESULT





4 Read Episode 16 again and Circle Yes / No

		✓	✗
1	According to the person outside, headlights are not going in front of the car.	✓	
2	General relativity explains the expanding nova model.		✗
3	Warp drivers are much more faster than light.	✓	
4	Bossroach is going to lock ZZZ55 as soon as they take off.	✓	

5 Your Turn : Write

If you were locked by another ship on space, what would you do? Write your thoughts and share it with the class.

6 Your Turn : Speak

Use the words below to make sentences about Bossroach.

SCARY - SPOOKY - WEIRD - MYSTERIOUS

LOUD - DIFICULT - AMBITIOUS - FUN

CREEPY - DARK - AGRESSIVE - BULLYING

HORRIBLE - FRIENDLY - NICE - CARING

7 Put the words in alphabetical order

1. CELESTIAL BODIES
2. BREATH
3. CONVERSATION
4. CREATURE
5. DESTROY
6. FLAT
7. GRAVITIONAL FIELD
8. HEADLIGHTS
9. HYPER SPACE
10. INSIDE
11. OCCUR
12. OUTSIDE
13. SPINNING
14. STUCK
15. SURFACE
16. WARP DRIVER

SPINNING | FLAT

BREATH | STUCK

INSIDE | CREATURE

DESTROY | GRAVITIONAL FIELD

OUTSIDE | SURFACE

HEADLIGHTS | CONVERSATION

OCCUR | WARP DRIVER

CELESTIAL BODIES | HYPER SPACE

8 Your Turn : Write

Use one of topics below to help you write a paragraph of 50 words. Share it with the class.

NATURE

SPORTS

SPACE

FAMILY

FRIENDS

BIRTHDAYS

9 Write each number in words. Then, try to say them in the class. For example: 123,456,789,123

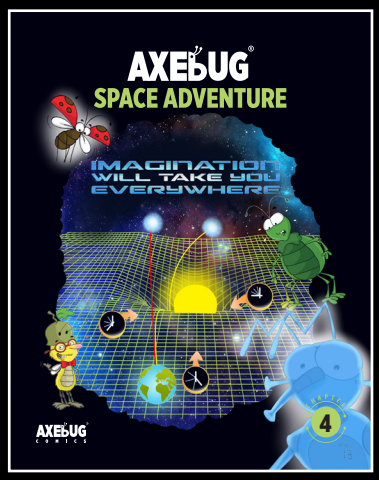
One hundred and twenty three billion, four hundred and fifty six million, seven hundred and eighty nine thounsand, one hundred and twenty three

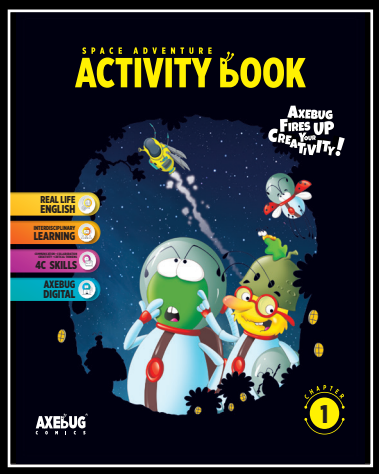
1. 234,976,456,210. two hundred thirty-four billion nine hundred seventy six million four hundred fifty-six thousand two hundred ten
2. 454,345,987,946. four hundred fifty-four billion three hundred forty five million nine hundred eighty-seven thousand nine hundred forty-six
3. 3.300,874,765,399 three and three hundred billion eight hundred seventy-four million seven hundred sixty-five thousand three hundred ninety-nine trillionths
4. 4.198,098,253,765 four and one hundred ninety-eight billion ninety-eight million two hundred fifty-three thousand seven hundred sixty-five trillionths

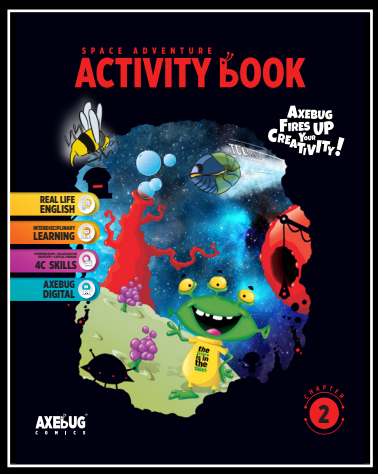
10 Your Turn : Speak

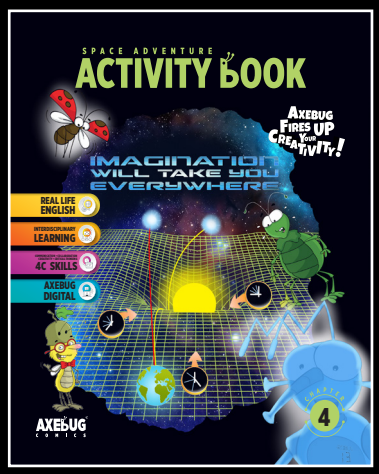
If you had a chance to create a character to put in Axebug, what would it be? Would it be a fly, bug, bee etc. What kind of a personality would it have? Share it with the class.

AXEBUG LANGUAGE KIT









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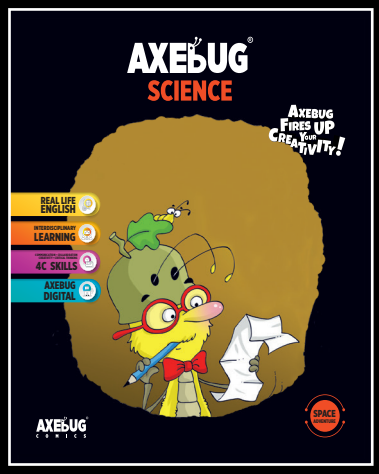

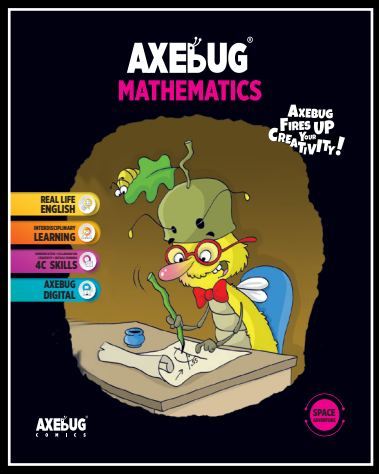

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