



BANYAN TREE SCHOOL
SECTOR 48-B, CHANDIGARH

SUMMER HOLIDAYS

HOMEWORK

(2021-22)

GRADE - III

CLASS INCHARGE- MS.VEENA SHARMA

THEME: SCIENTISTS





Dear parents,

We all know that Covid 19 has spread its tentacles all over the world. The offices are closed, businesses are at halt, schools are shut down, and there is a situation of complete lockdown. Amidst this, I urge our dear parents to spend quality time with the children. Use this time to teach your children lessons of life. Involve them in day today chores like making their bed, helping you in the kitchen, setting their cupboards, polish their shoes etc. Set a routine of physical exercise for them so that their energy is utilized the optimum. Not only this, talk to them about your life experiences, teach them virtues such as kindness, helpfulness, honesty etc. Read to them stories which will enrich their vocabulary, take them closer to the roots and give wings to their imagination. Let's join hands in making the best use of this time granted to us.

The school is making every possible endeavour to help you in this.

Regards,

Ms. Sudeshna Sharma

Principal

Banyan Tree School, Chandigarh

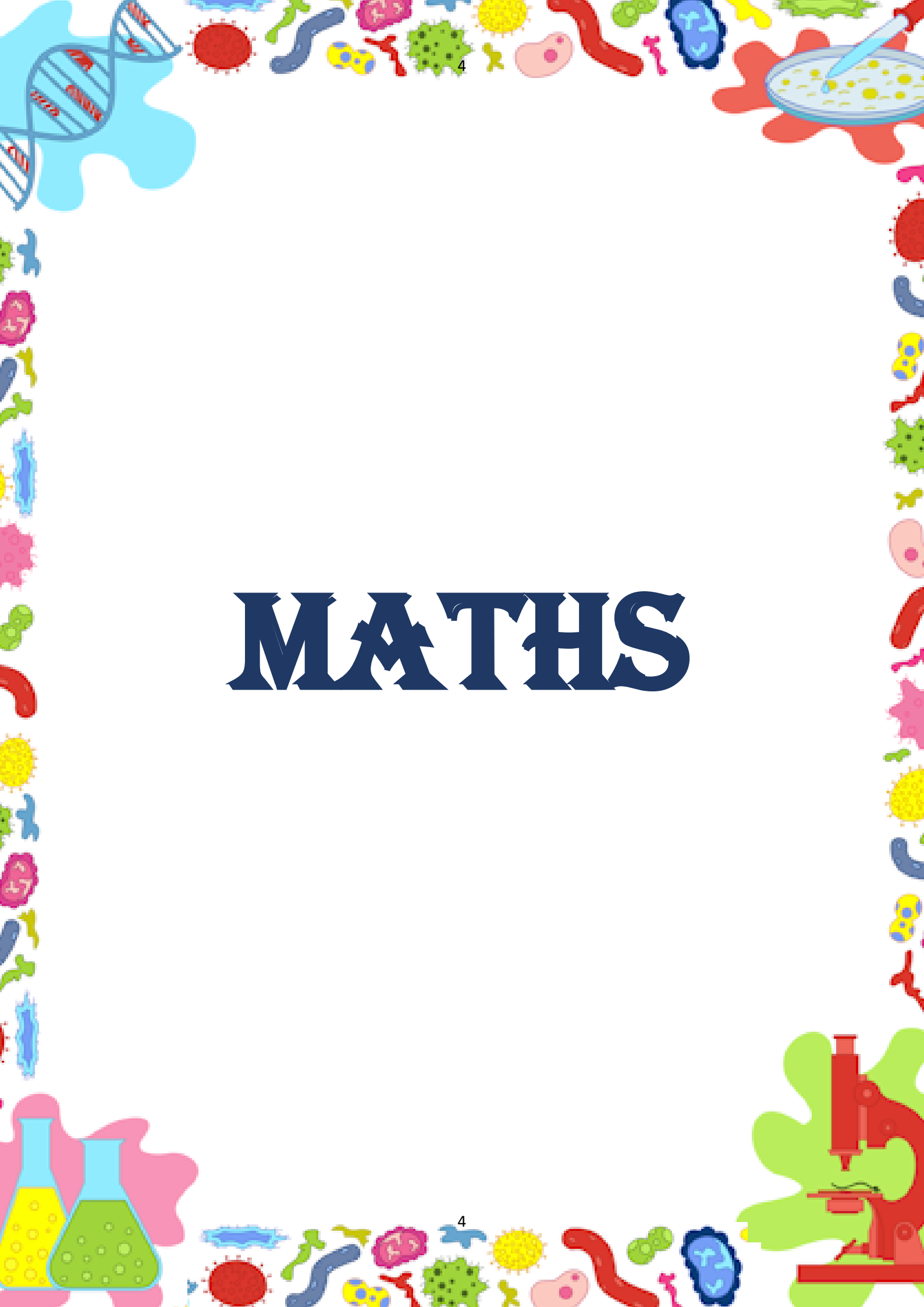


GENERAL INSTRUCTIONS

Follow the instructions given carefully:

- Summer break for the students will commence from *31st May, 2021.*
- School will reopen after the summer break on *5th July, 2021.*
- The Holiday Homework can be done in any notebook/ loose A4 sheets or anything that is easily available.
- The homework should be uploaded as a pdf on MS- Teams before *10th July* under the respective subject Teams.
- The students will be graded on their Holiday Homework.
- Feel free to call/ ping in case of any query.

MATHS

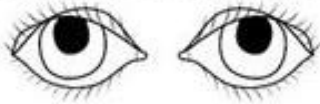


Worksheet No. 1

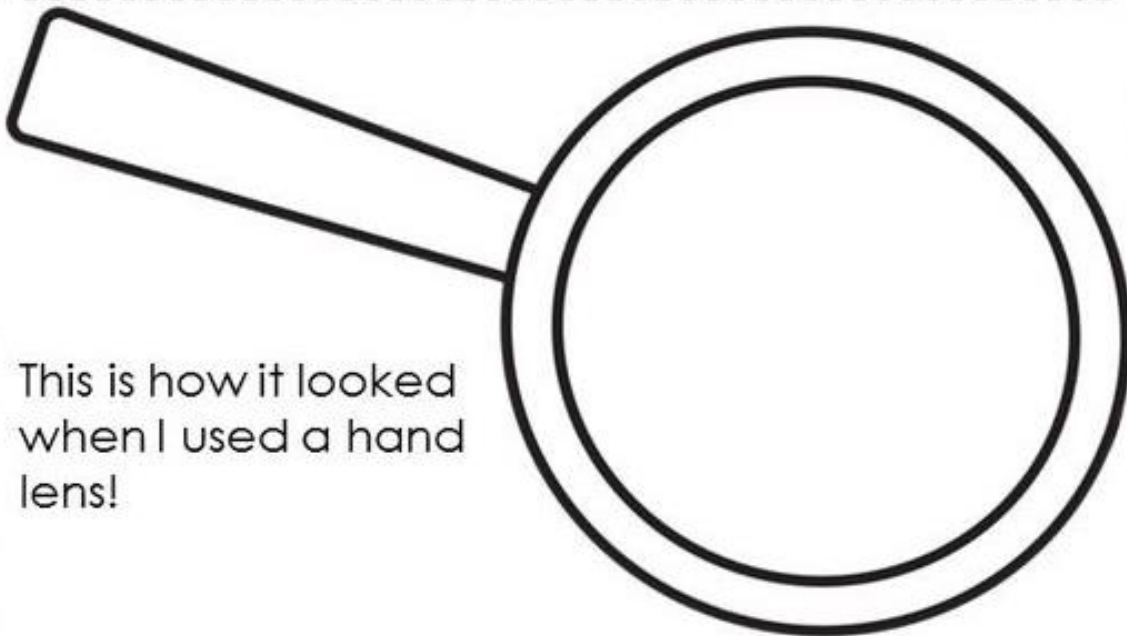
Scientists Use Many Tools...

Some tools help scientist look closer and make small things look bigger.

I looked at a _____



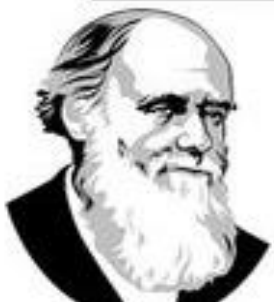
This is how it looked with my eyes.



This is how it looked when I used a hand lens!

Worksheet No. 2

Famous Scientists Word Search



ALBERT EINSTEIN

MARIE CURIE

STEPHEN HAWKING

LOUIS PASTEUR

ISAAC NEWTON

JJ THOMSON

CHARLES DARWIN

ALFRED NOBEL

THOMAS EDISON

NIKOLA TESLA

ALEXANDER FLEMING

EDWIN HUBBLE

ALAN TURING

JAMES WATSON

ERNEST RUTHERFORD

Worksheet No. 3

Fun Time

(Make funny characters using Plastic spoons. Use your own creativity)





Worksheet No. 4

“The ones who are crazy enough to think they can change the world are the ones who do.” -Steve Jobs

The world has changed by leaps and bounds. Inventions of today, nurture the tomorrow. A tribute to our great scientists. Let’s know them well and the change they brought to the mankind. Choose any 5 powerful inventions that changed the world towards betterment. Write about the impact of invention and trace the inventor’s journey towards attaining his/her goal.

Paste/ draw pictures of the scientists and their inventions.



EVS



Worksheet No. 1

Experiment Fun (The Dancing Rice)

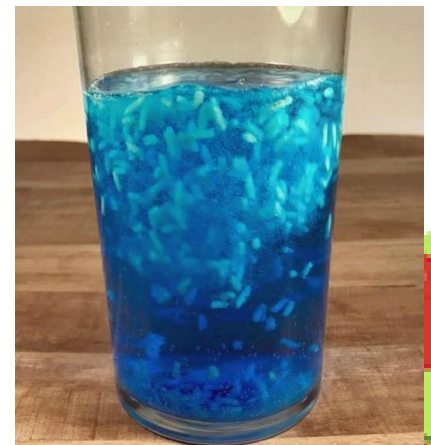
Materials Needed:

- White Vinegar
- Baking Soda
- Rice
- Clear Jar
- Water
- Food Coloring (Optional)



Procedure:

1. Fill the Clear Jar 3/4 Way Full of Water. If desired, mix in food coloring.
2. Add in 1 TBS of Baking Soda and Stir. Mix completely.
3. 1/4 Cup of Uncooked Rice. Note that instant rice is needed for this project! Non-instant rice is too dense and won't result in a "dancing" reaction.
4. Add in 1-2 TBS of White Vinegar.





Worksheet No. 2

Answer the following questions on Famous Inventions and Inventors:

1. Who is the inventor of the Telephone?

- a. Francis Beaufort
- b. Henry Moseley
- c. Alexander Graham Bell
- d. Anthony Blatner

2. Who invented the Light Bulb?

- a. Thomas Edison
- b. Eli Whitney
- c. Benjamin Franklin
- d. Francis Beaufort

3. The Steam engine was invented by _____.

- a. Benjamin Franklin
- b. Thomas Savery
- c. Henry Ford
- d. John Logie Baird

4. Who invented the Aeroplane?

- a. The Wright brothers (Orville and Wilbur Wright)
- b. James Watt
- c. Thomas Edison
- d. Galileo Galilei

5. Who was the inventor of Video games?

- a. Karl Benz
 - b. Henry Moseley
 - c. Ralph Baer
 - d. Eli Whitney
- 

6. Who is the inventor of the Computer?

- a. Charles Babbage
- b. Roger Bacon
- c. Joseph Aspdin
- d. Tim Treling

7. Who, along with Robert Cailliau, invented the World Wide Web (WWW)?

- a. Nikola Tesla
- b. Karl Benz
- c. Alexander Bereznyak
- d. Tim Berners-Lee

8. _____ invented the mobile phone.

- a. Martin Cooper
- b. Roger Bacon
- c. Anthony Blatner
- d. Thomas Edison

9. Who invented the ceiling fan?

- a. Alexander Bereznyak
- b. Philip Diehl
- c. Charles Thermos
- d. Rudolf Diesel

10. Who was the inventor of the postage stamp?

- a. Heinrich Hertz
- b. Rowland Hill
- c. Quam Hollista
- d. Ibrahim El-Naiz



13

Worksheet No. 3

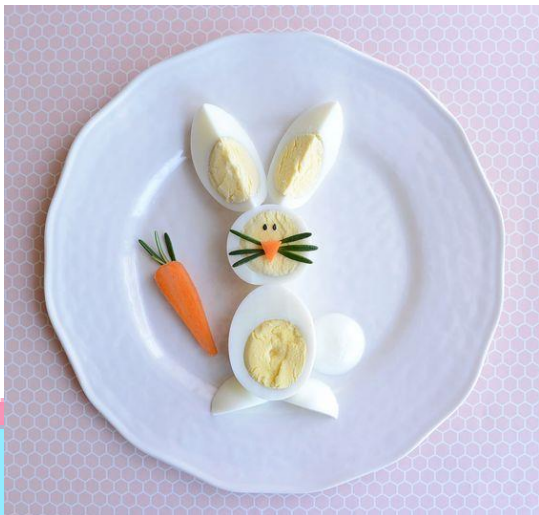
Analyse the impact of human activities and technological innovations on rising temperature of the Earth.

Depict the same through a poster

Worksheet No. 4

Let's get creative

(Use your creativity to make characters using various fruits and vegetables)



(Perform the following yoga poses, click pictures and upload)



ENGLISH



Who is a scientist?

A Scientist is someone who...

Observes and wonders

Shares their ideas and discoveries

Listens to the ideas of others

Explores the world around them

Asks questions

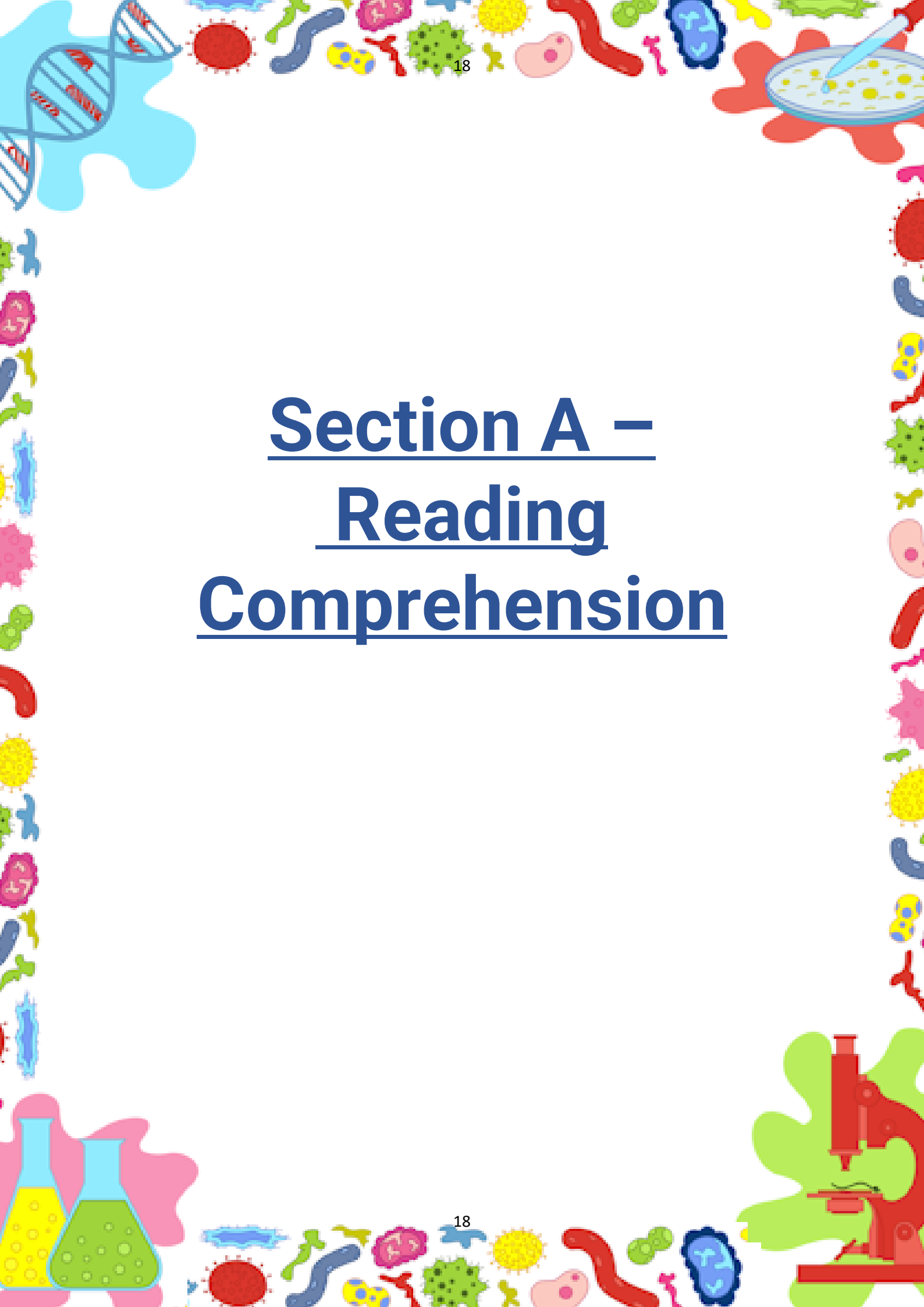
Conducts experiments

Uses tools to solve problems



A Scientist is someone like you!

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Section A –
Reading
Comprehension

Read about the great scientist Thomas Edison carefully and answer the questions below

Thomas Edison

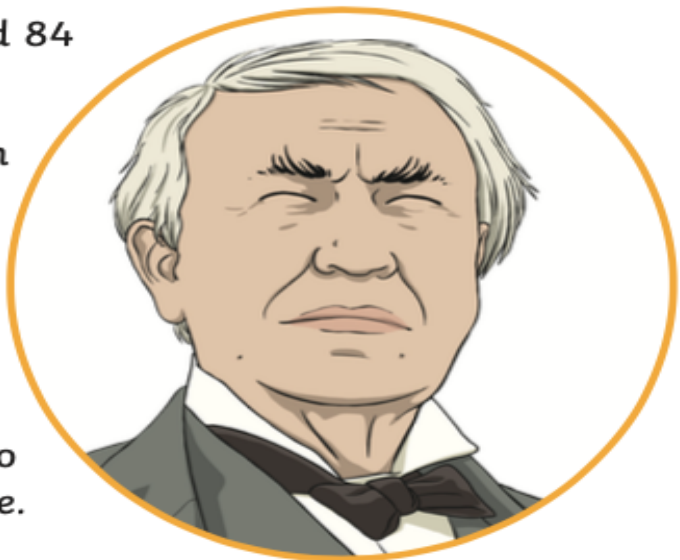
Born: 11th February, 1847

Died: 18th October, 1931 aged 84

Childhood

Thomas Edison was born in America.

He had hearing problems from having an illness called scarlet fever when he was young. His mother was a teacher, so he did not go to school but was taught at home.



Getting a Job

He got his first job by accident. He saved a 3 year-old boy from being hit by a train, and the boy's father was so thankful, he gave Thomas a job as a telegraph operator.

A telegraph operator: a person who operates a telephone switchboard.

At 19 years old, Thomas got a new job. He worked at night so that he could do his experiments. One night he spilt sulphuric acid on the floor and it dripped through the wooden floor boards onto the desk of his boss below. Thomas Edison lost his job!

First Invention

Thomas Edison's first invention was finished in 1877 – the phonograph. This was a machine that could record and replay sound. The sound was played through a large horn.

Suddenly, Thomas Edison became famous.

Thomas Edison

An Amazing Man

Thomas Edison was a very careful worker. He thought hard about all the different things that could go wrong and how to put things right.



The Electric Lightbulb

Thomas wanted to invent a light that did not need oils or gas to be lit. Edison created a lightbulb that would stay lit using electricity for $13 \frac{1}{2}$ hours!

His Legacy

Thomas Edison died in 1931; he was 84 years old. Almost everyone in the world has used at least one of his inventions: the electric lightbulb. We are still using them today, almost 100 years later!



Edison with his phonograph invention.

Answer the following questions in as much detail as you can and using full sentences.

1. Why did Thomas Edison have hearing problems?

2. How did he get his first job as a telegraph operator?

3. How did his boss find out he was doing experiments while he was at work?

4. What was the name of the invention that could record sound?

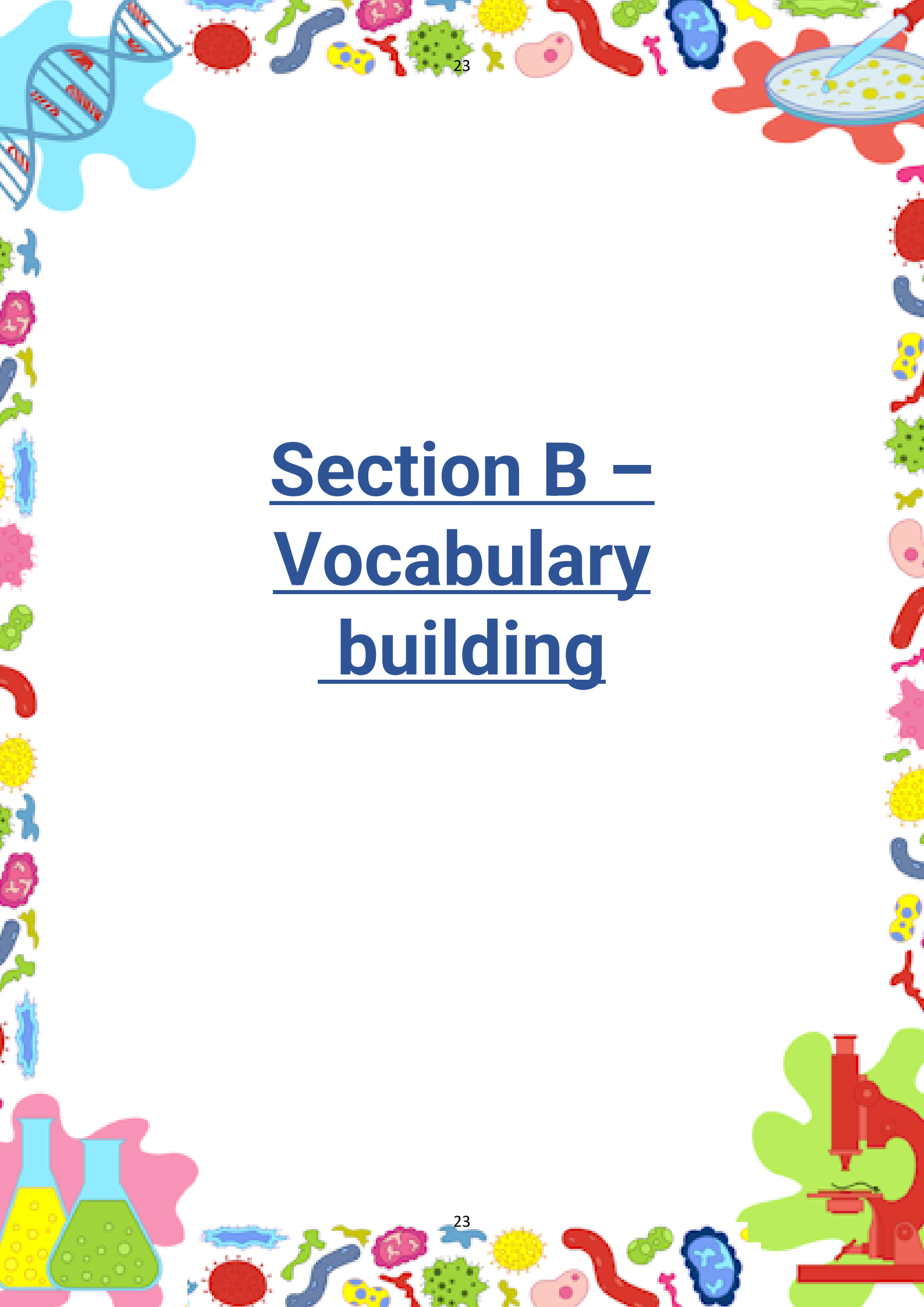
5. What did his electric lightbulb not need to work, that other previous lights did?

6. Name one quality in Thomas Edison's character that made him a great inventor.

7. How old was Thomas Edison when he died?


8. Why should we be grateful to Thomas Edison?


Section B – Vocabulary building





Great Inventions Worksheet 1


1 Write, find and then circle.


1  This is a mobile pho ne.

2  This is a _____ tyre.


3  This is a _____.

4  This is a _____ pen.

5  This is a light _____.

6  This is _____ navigation.

7  This is an MP3 _____.

8  This is a _____.

R	B	A	L	L	P	O	I	N	T	C
S	P	E	Q	E	B	H	U	B	E	V
A	A	K	H	Z	R	E	P	N	L	C
T	P	H	O	N	E	J	L	E	E	A
E	R	B	U	L	B	I	A	P	S	T
L	R	G	G	B	F	M	Y	H	C	T
L	F	I	T	O	I	G	E	O	O	R
I	T	R	A	C	T	O	R	S	P	C
T	R	A	F	J	L	C	S	M	E	J
E	D	E	S	R	U	B	B	E	R	E
A	A	U	E	Y	T	A	S	U	I	P

2 Complete the sentences. Match them with the correct year.

- 1 John Boyd Dunlop invented the rubber tyre. He invented it in 1938.
- 2 The Wright brothers invented the first a _____ with an engine. He designed it in 1954.
- 3 Lazlo Biro invented a type of b _____ pen. They invented it in 1903.
- 4 Alexander Graham Bell made the first t _____ call. He made it in 1876.
- 5 George Devol designed a type of r _____ . He invented it in 1888.

Great Inventions Worksheet 2

1 Write the words in the correct column.

The Flyer ~~ballpoint pen~~ rubber tyre Mr Watson engine tube of air
text message wheels aeroplane inkspots fountain pen telephone

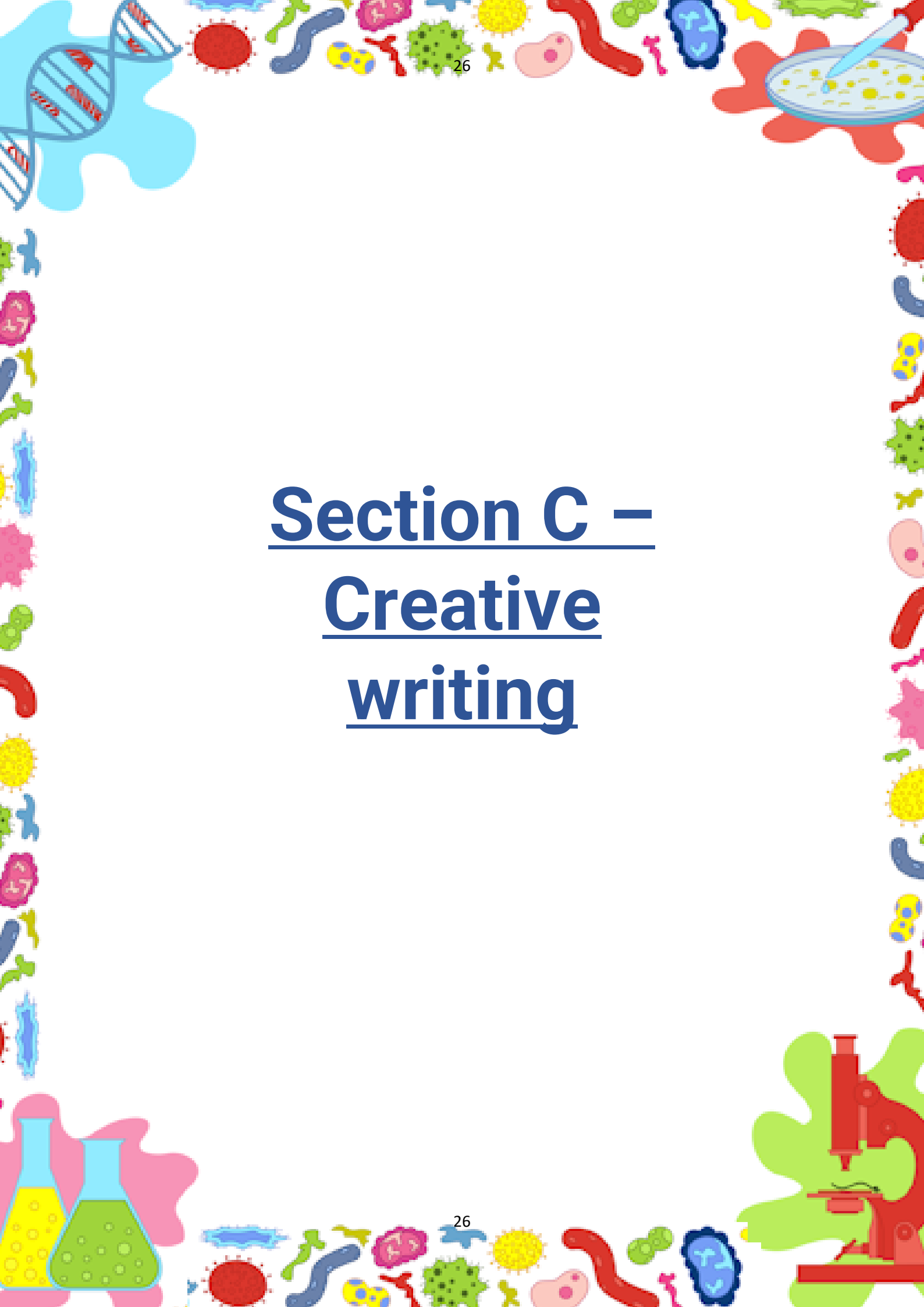


2 Complete the sentences using the words.

photos hours letters dangerous ~~cycling~~ quills travelled

- 1 Before the invention of the rubber tyre, cycling was very uncomfortable.
- 2 Before the invention of the aeroplane, people _____ across the Atlantic by ship.
- 3 Aeroplanes can fly from London to New York in less than 7 _____.
- 4 Before the invention of the ballpoint pen, people used _____ and fountain pens to write.
- 5 Before the invention of the telephone, people sent _____ and telegrams.
- 6 Mobile phones can take _____ and send text messages.
- 7 Robots do jobs that are difficult or too _____ for people.

Section C – Creative writing



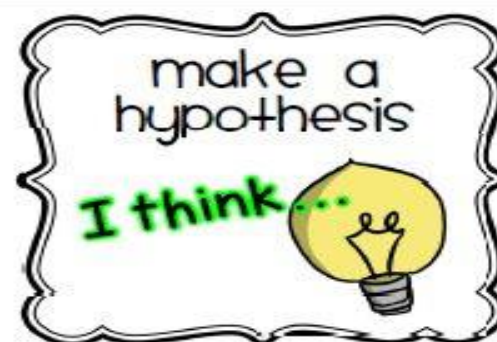
I. Choose two inventions which you feel are the greatest till date and write about them.

Write how are you benefitted from them?

II. Think of yourself as a Scientist and write about your invention.

Include the following points in your journal -

- Name of your invention.
- Material required for creating your invention.
- How will your invention help everyone.
- Make a poster to tell people about your invention.



HINDI



Worksheet No. 1



निम्नलिखित गद्यांश को पढ़ कर प्रश्नों के उत्तर दीजिए –

डॉ. कलाम दृढ़ इच्छाशक्ति वाले वैज्ञानिक थे। वे भारत को विकसित देश बनाने का सपना संजोए हुए थे। उनका मानना था कि भारतवासियों को व्यापक दृष्टि से सोचना चाहिए। हमें सपने देखने चाहिए। सपनों को विचारों में बदलना चाहिए। विचारों को कार्यवाही के माध्यम से हकीकत में बदलना चाहिए। डॉ. कलाम तीसरे ऐसे वैज्ञानिक हैं, जिन्हें भारत का सर्वोच्च सम्मान 'भारत रत्न' दिया गया। उन्हें 'पद्मभूषण' तथा 'पद्मविभूषण' से भी सम्मानित किया गया। भारत को

उन पर गर्व है। इतनी उपलब्धियाँ प्राप्त करने के बावजूद अहंकार कलाम जी को छू तक नहीं पाया। वे सहज स्वभाव के एक भावुक व्यक्ति थे। उन्हें कविताएँ लिखना, वीणा बजाना तथा बच्चों के साथ रहना पसंद था। वे सादा जीवन उच्च विचार में विश्वास रखते थे। कलाम साहब का जीवन हम सभी के लिए प्रेरणादायक है। कलाम जी तपस्या और कर्म ठता की प्रतिमूर्ति हैं। राष्ट्रपति पड़ की शपथ लेते समय दिए गए भाषण में उन्होंने कबीरदास जी के इस दोहे का उल्लेख किया था – ‘काल करे सो आज कर, आज करे सो अब’।

(क) डॉ. कलाम ने भारत को क्या बनाने का सपना देखा है?

अल्प विकसित देश

विकसित देश

निर्मित देश

विकासशील देश

(ख) डॉ. कलाम किस प्रवृत्ति के व्यक्ति थे?

असहज

दयालु

भावुक

क्रूर

(ग) डॉ. कलाम एक दृढ़ इच्छाशक्ति वाले थे?

वैज्ञानिक

कलाकार

साहित्यकार

इनमें से कोई नहीं

(घ) डॉ. कलाम को क्या – क्या बेहद पसंद था?

(ङ) डॉ. कलाम को किन-किन सम्मानों से सम्मानित किया गया?

(च) डॉ. कलाम की तरह आप भारत को आगे बढ़ाने के लिए क्या प्रयास करेंगे।

Worksheet No. 2

निम्नलिखित चित्रों को पहचानिए और बताए कि इनका आविष्कार किसने और कब किया था ?



Worksheet No. 3

(Research Work)

अपनी पसंद के किन्ही तीन वैज्ञानिकों के बारे में जानकारी प्राप्त करके उसके बारे में लाइन लिखें ।

Worksheet No. 4

ब्रेल पद्धति एक तरह की लिपि है, जिसको विश्व भर में नेत्रहीनों को पढ़ने और लिखने में छूकर व्यवहार में लाया जाता है। ब्रेल लिपि का आविष्कार किसने और कब किया ? चित्रों की सहायता से बताए ।

Worksheet No. 5

दो स्मार्ट फ़ोन के विषय में बताते हुए दो मित्रों के बीच हुई बातचीत को संवाद के रूप में लिखें ।



Worksheet No. 6

(सामान्य ज्ञान के प्रश्न)

प्रश्न 1- टेलीविज़न का आविष्कार किसने किया ?

प्रश्न 2 - बिजली के हीटर में किस धातु का तार होता है ?

प्रश्न 3 - किस ग्रह को इवनिंग स्टार (शाम का तारा) कहते हैं ?

प्रश्न 4- किस ग्रह को लाल तारा (रेड स्टार) कहते हैं ?

प्रश्न 5- पानी किस गैस से मिलकर बनता है ।

ENJOY YOUR SUMMER HOLIDAYS

