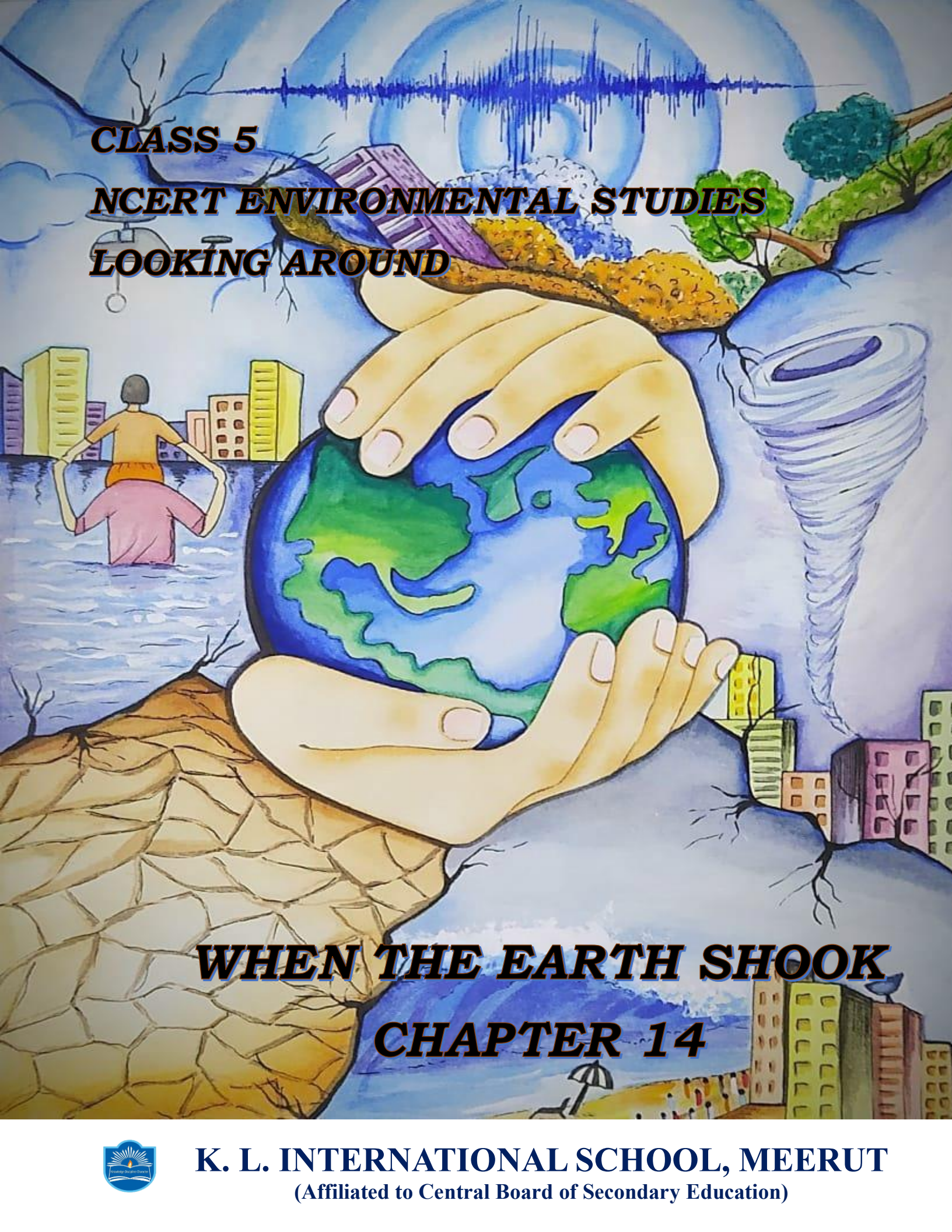


The background of the entire page is a colorful illustration. In the center, a large, light-skinned hand is shown holding a globe of the Earth. The globe shows green continents and blue oceans. The hand is positioned over a cracked, brown, rocky surface. In the background, there are several elements: a blue sky with a large, dark blue, jagged line resembling an earthquake seismograph reading; a blue river or sea with a person in a pink shirt and orange shorts standing in it, holding a yellow rope; a city with yellow and pink buildings; a large, white, swirling tornado or cyclone; and a blue, rocky landscape with some green trees and a small blue umbrella on a beach in the bottom right corner.

CLASS 5

NCERT ENVIRONMENTAL STUDIES
LOOKING AROUND

WHEN THE EARTH SHOOK
CHAPTER 14



K. L. INTERNATIONAL SCHOOL, MEERUT
(Affiliated to Central Board of Secondary Education)

ACKNOWLEDGEMENT

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We extend our heartfelt thanks to Mr. Sandeep Sethi (Director Education, M.S.M.S.II, Museum Trust) for providing us the golden opportunity to do this task. It's because of his prestigious mentorship that this novel could be created.

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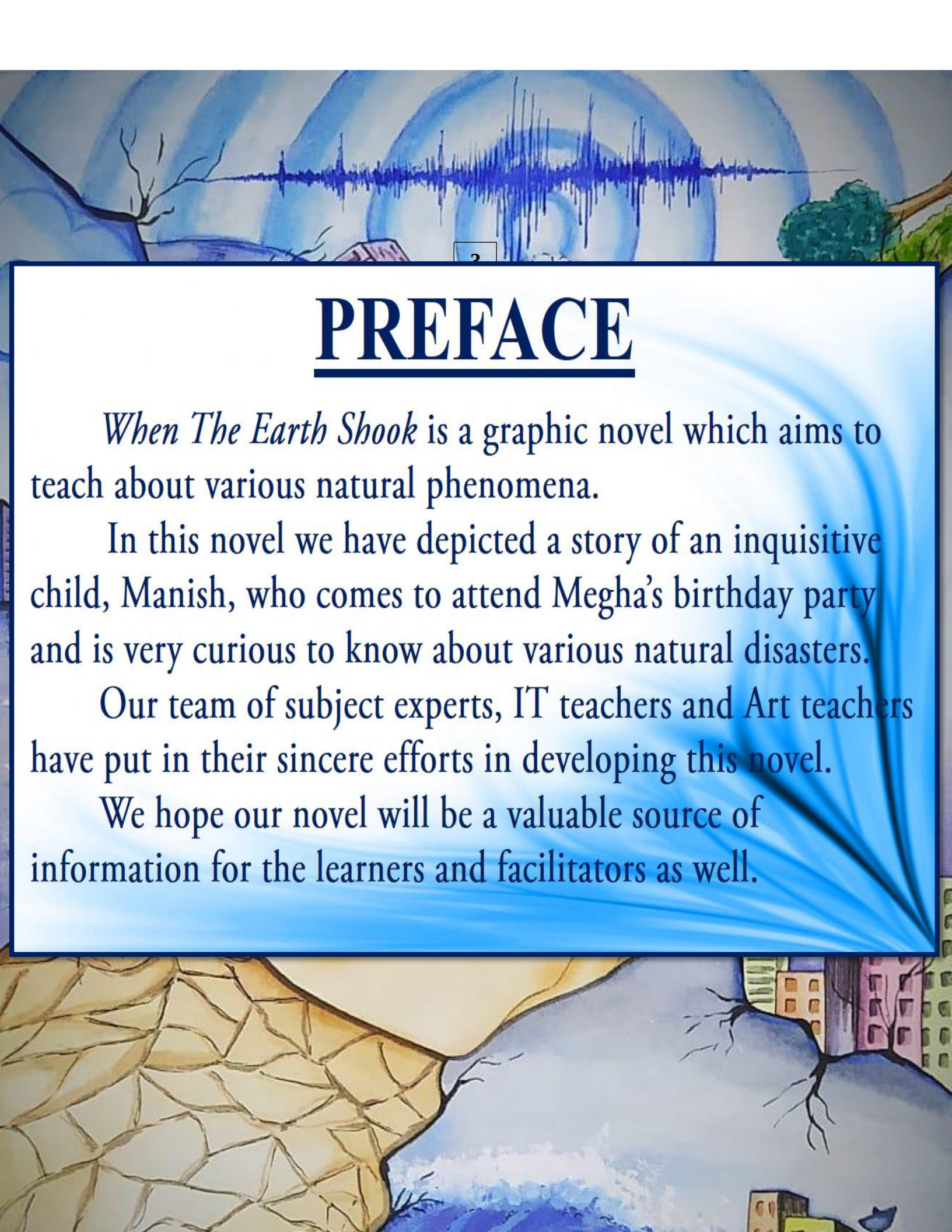
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To access the comic book and additional interactive digital content, download the DIKSHA app from Google Play Store on your Android smartphone or tablet and scan the QR code using DIKSHA app.





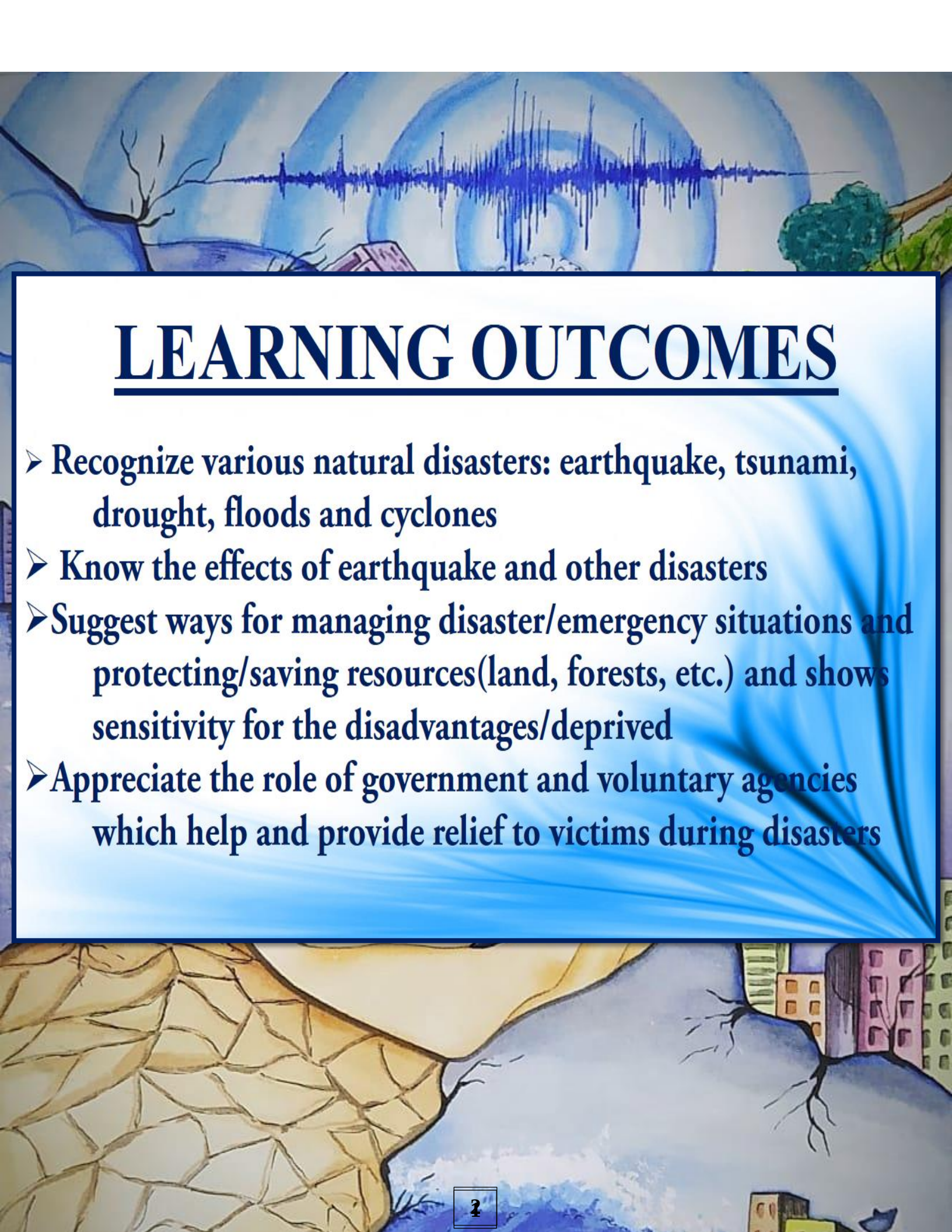
PREFACE

When The Earth Shook is a graphic novel which aims to teach about various natural phenomena.

In this novel we have depicted a story of an inquisitive child, Manish, who comes to attend Megha's birthday party and is very curious to know about various natural disasters.

Our team of subject experts, IT teachers and Art teachers have put in their sincere efforts in developing this novel.

We hope our novel will be a valuable source of information for the learners and facilitators as well.



LEARNING OUTCOMES

- Recognize various natural disasters: earthquake, tsunami, drought, floods and cyclones
- Know the effects of earthquake and other disasters
- Suggest ways for managing disaster/emergency situations and protecting/saving resources(land, forests, etc.) and shows sensitivity for the disadvantages/deprived
- Appreciate the role of government and voluntary agencies which help and provide relief to victims during disasters

STORY BOARD

NATURAL DISASTERS

EARTHQUAKE

FLOOD

CYCLONE

DROUGHT

TSUNAMI

MEANING

GROUND
SHAKES
VIOLENTLY

WATER
OVERFLOWS

OCEAN
STORMS

DRIER THAN
NORMAL
LAND

UNDERSEA
VOLCANO/
EARTHQUAKES

CAUSES

MOVEMENT
DEEP INSIDE
THE EARTH

HEAVY
RAINFALL

STRONG WIND
ACCOMPANIED
BY HEAVY RAIN

SCARCITY
OF WATER

MOVEMENT
DEEP INSIDE
THE OCEAN
SURFACE

PRECAUTIONS

MOVE TOWARDS
AN OPEN AREA

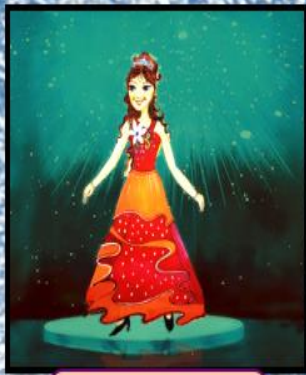
SEEK
HIGHER
GROUND

STAY INSIDE
& SEEK
SHELTER

AFFORESTATION/
WATER
HARVESTING

SEEK AN
ELEVATED
AREA

CHARACTERS



Megha
Birthday Girl



Manu
Friend



Manish
Inquisitive friend



Saloni Didi
Student



Manu's Mother
Seismologist



Mr. Amit Arora
Businessman

Mrs. Anu Arora
Housewife



Ms. Mansi
Relief Camp (Front desk)



INTRODUCTION

Megha's birthday party preparation is going on.

I have decorated the room with balloons.

Thank you, dad!
It looks very beautiful.

Wow !

Megha, see
your birthday
cake is ready.

Mom, it looks
delicious.

Yes,
tempting
too.





EARTHQUAKE

Suddenly the Earth starts shaking.



Everyone is feeling the earthquake.



Manu tells everyone that it was an earthquake.

Don't panic,
it was an
earthquake.

Earthquake?

Yes...
It was

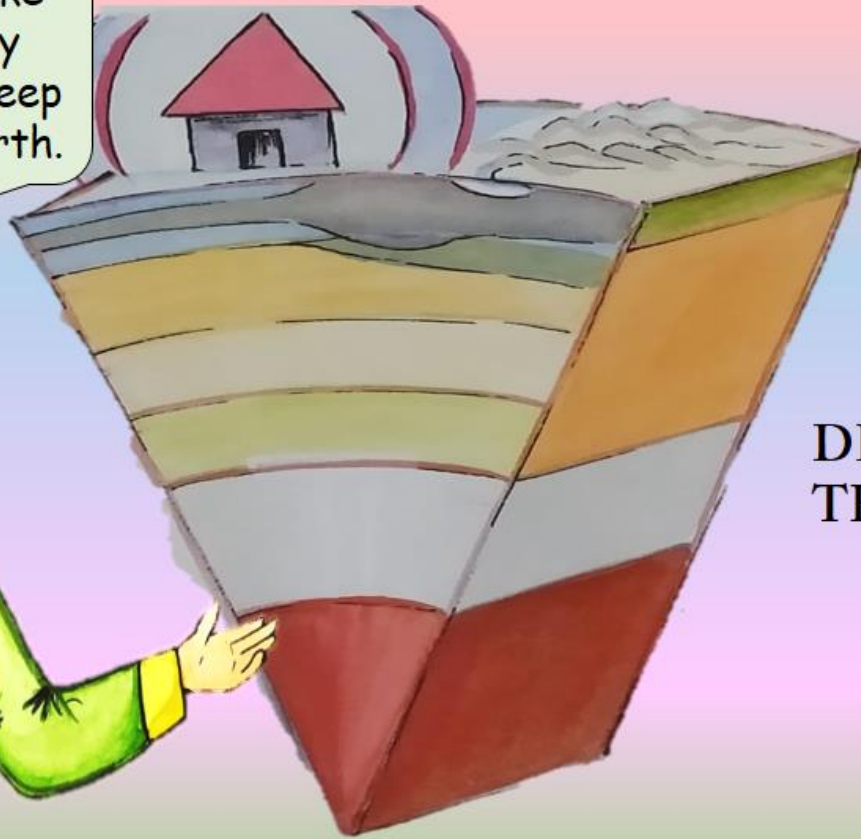
I have heard
about it but
never
experienced it.

YES... Manish, when an
earthquake occurs, the
ground shakes and trembles
for few seconds.

But how does the
ground shake?

Manu describes the earthquake.

An earthquake is caused by movements deep inside the earth.



DEEP INSIDE
THE EARTH

Manish cracks a joke.

GUESS!!
What did
the ground
say to the
earthquake?

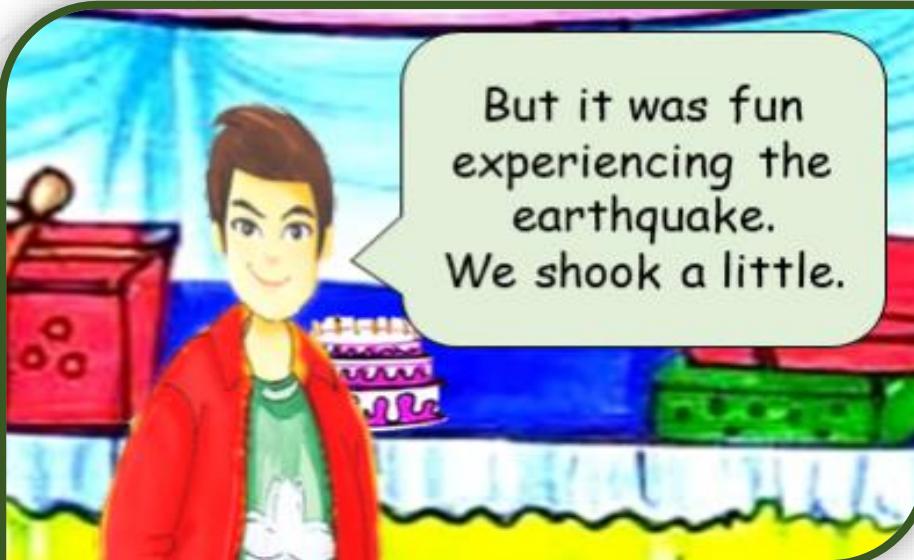
WHAT
????

You crack me up...

HAHA!



We should not make fun of it.



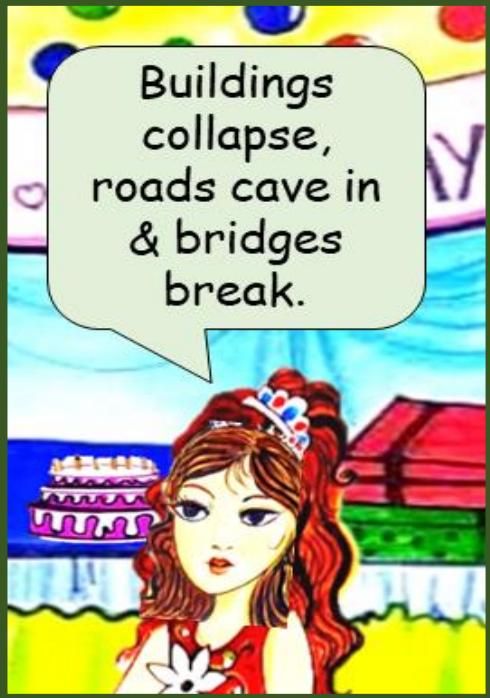
But it was fun experiencing the earthquake. We shook a little.



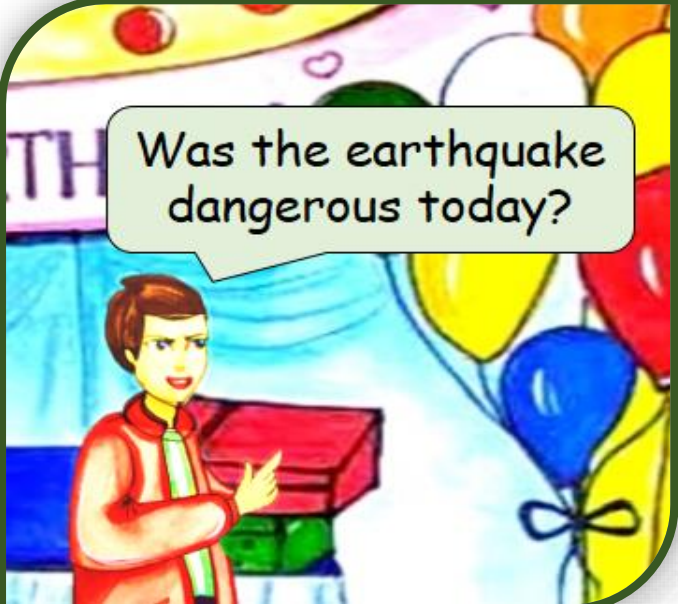
But earthquake can be dangerous too.



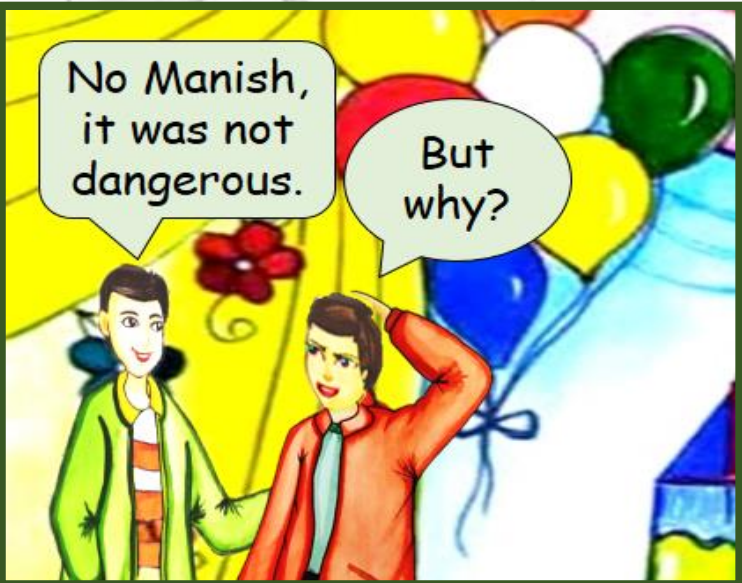
A severe earthquake can cause destruction.



Buildings collapse, roads cave in & bridges break.



Was the earthquake dangerous today?



No Manish, it was not dangerous.

But why?

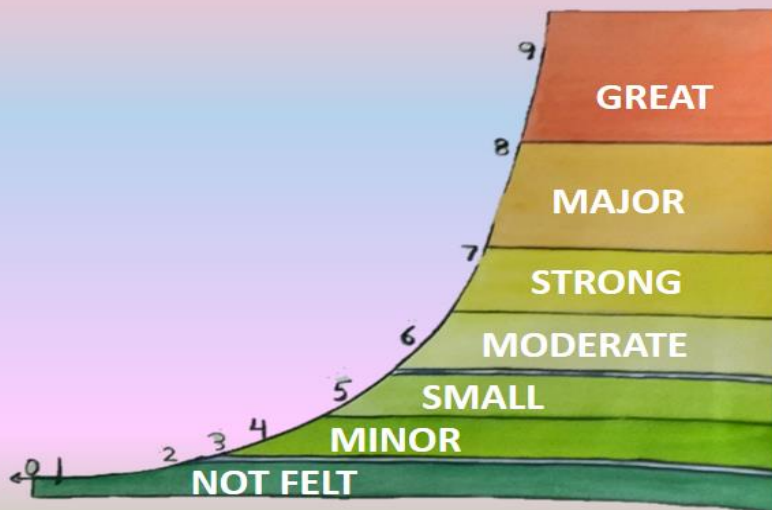
Dear, the intensity of an earthquake is measured from 1-10.

Should we count from 1-10 during an earthquake?

Megha explains the Richter Scale.

It is measured on the *Richter Scale*.

RICHTER SCALE



Is Richter a company of a scale?

Richter Scale is a scale of numbers to measure the intensity of an earthquake.



Earthquakes of intensity 3 or less on the Richter Scale do not cause much damage.

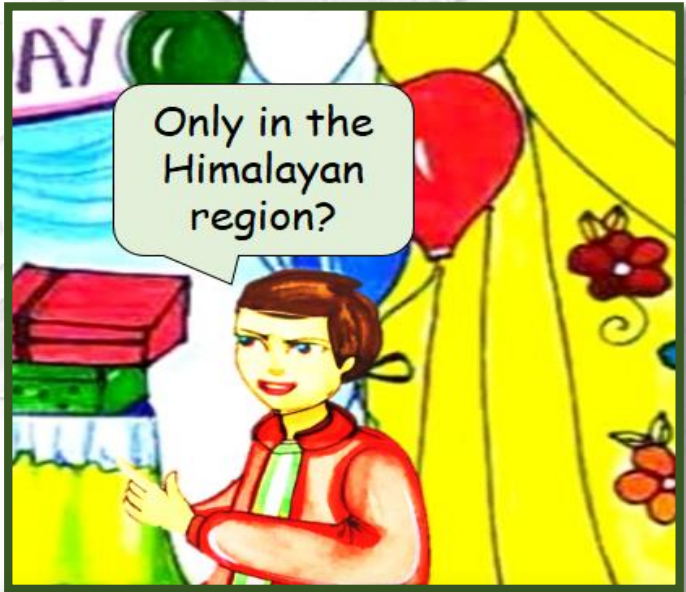
An earthquake of intensity 6 or above causes massive destruction.



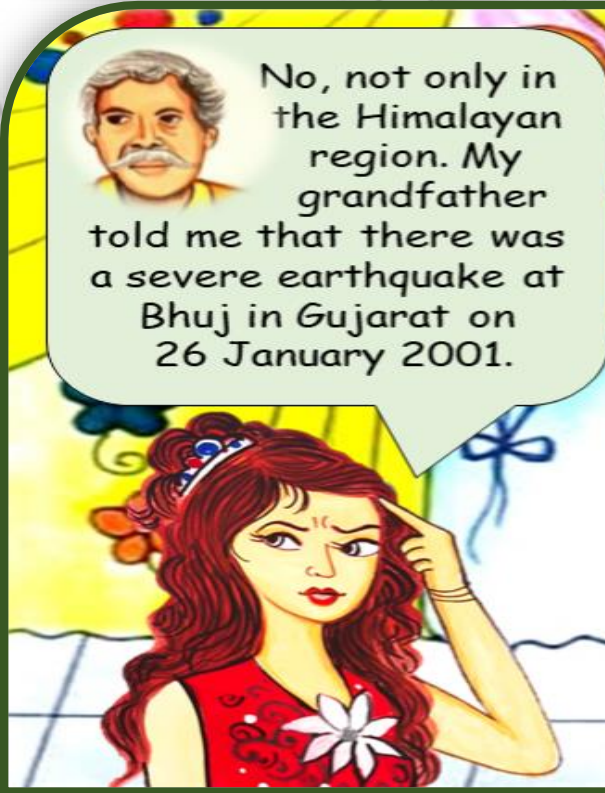
Oh! Really, Megha.



That's not all dear, it is common to have earthquakes in certain parts of India such as the Himalayan region.

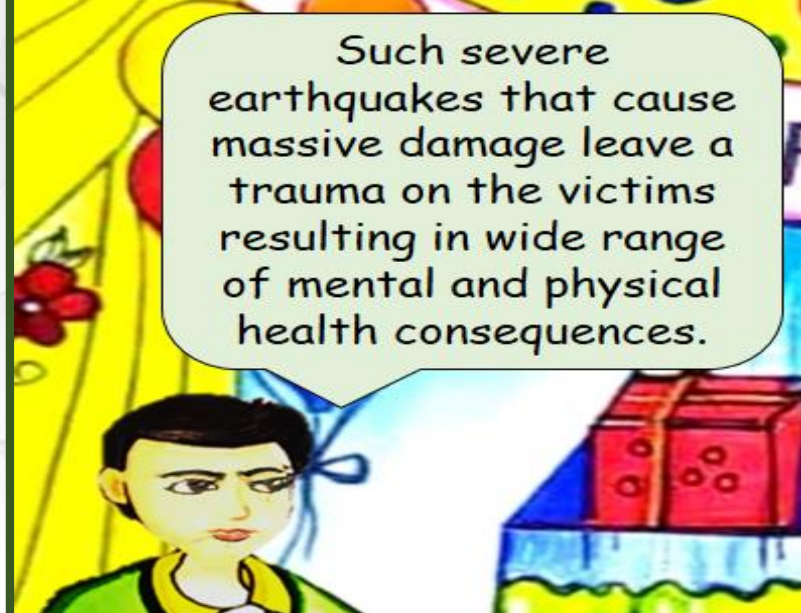


Only in the Himalayan region?



No, not only in the Himalayan region. My grandfather told me that there was a severe earthquake at Bhuj in Gujarat on 26 January 2001.

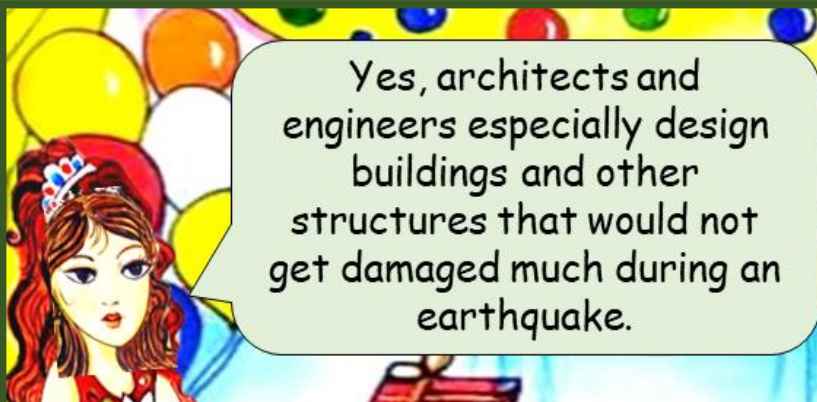




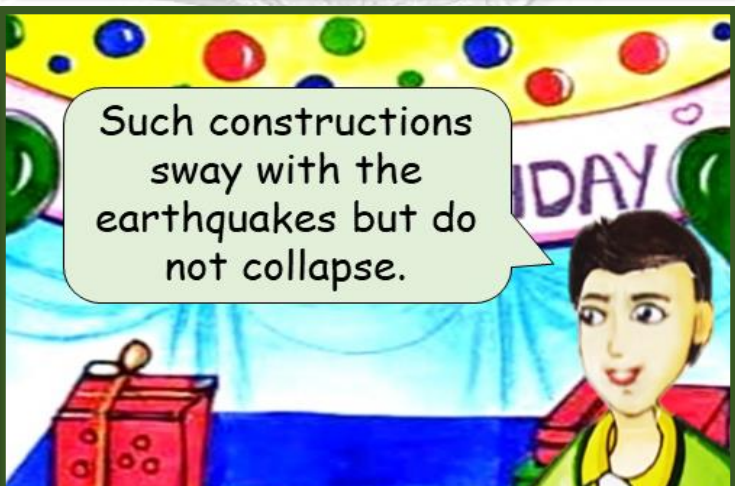
Such severe earthquakes that cause massive damage leave a trauma on the victims resulting in wide range of mental and physical health consequences.



Can we do something to avoid such damage?



Yes, architects and engineers especially design buildings and other structures that would not get damaged much during an earthquake.



Such constructions sway with the earthquakes but do not collapse.



Now, I wish to have some water.



So, what are you waiting for? Let's move towards the dining hall.

Do you know?

Just like on earth, quakes occur on the moon also but they are referred to as moonquakes.

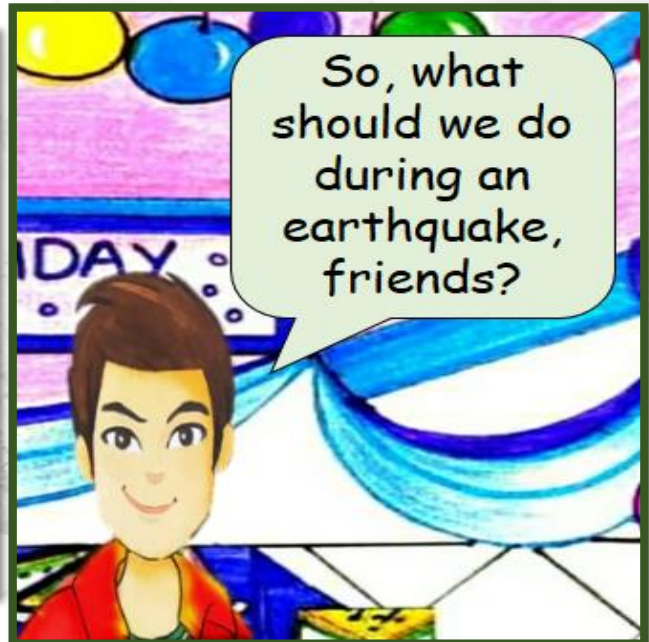
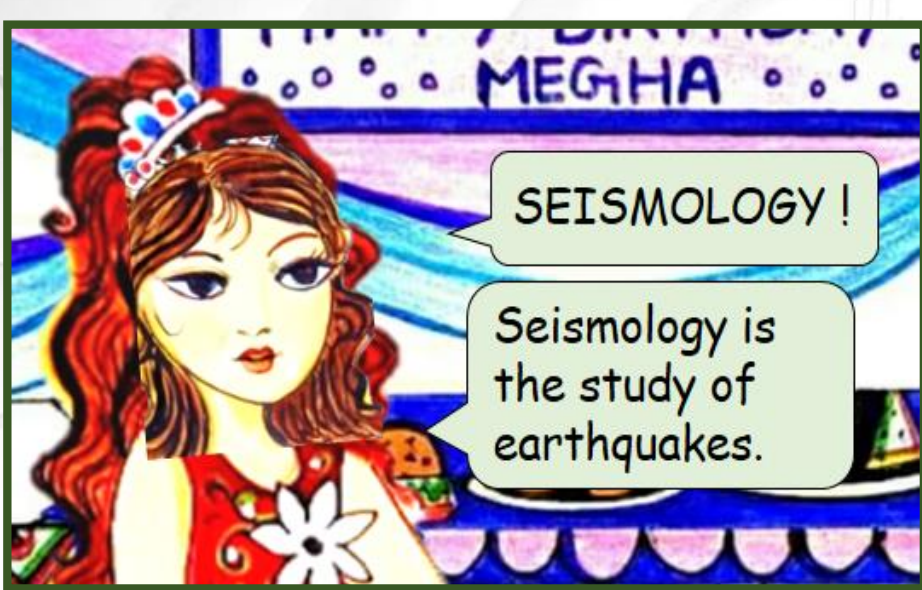
Everyone is in the dining hall having snacks..

Manu,
how do you know
so much about it?

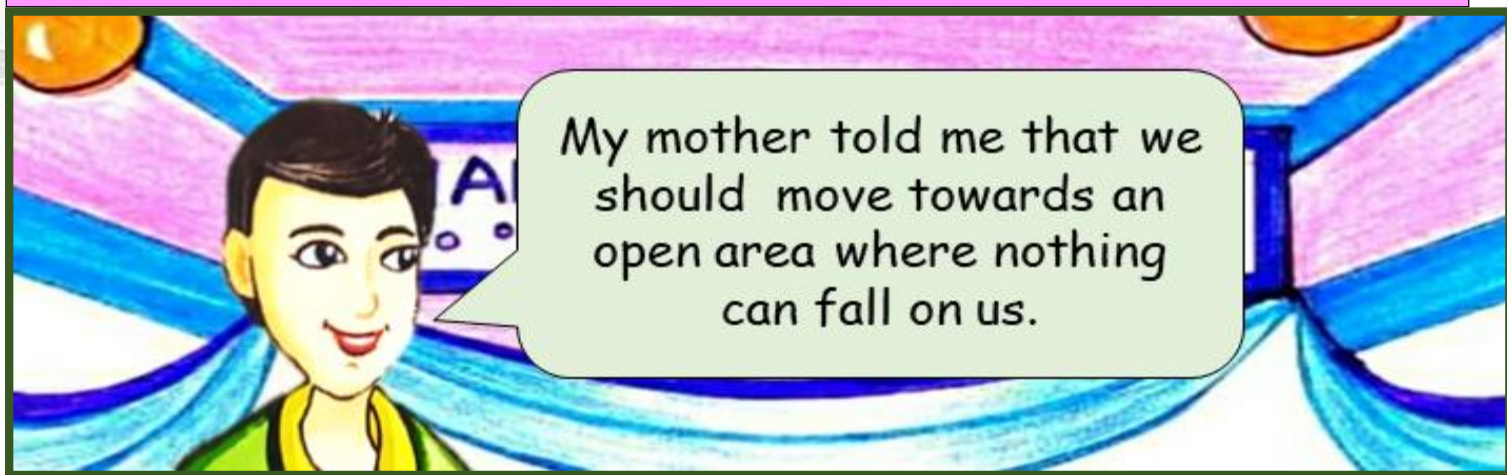
Because my mother is
a *Seismologist*.

Seismo..
What?

???
??...



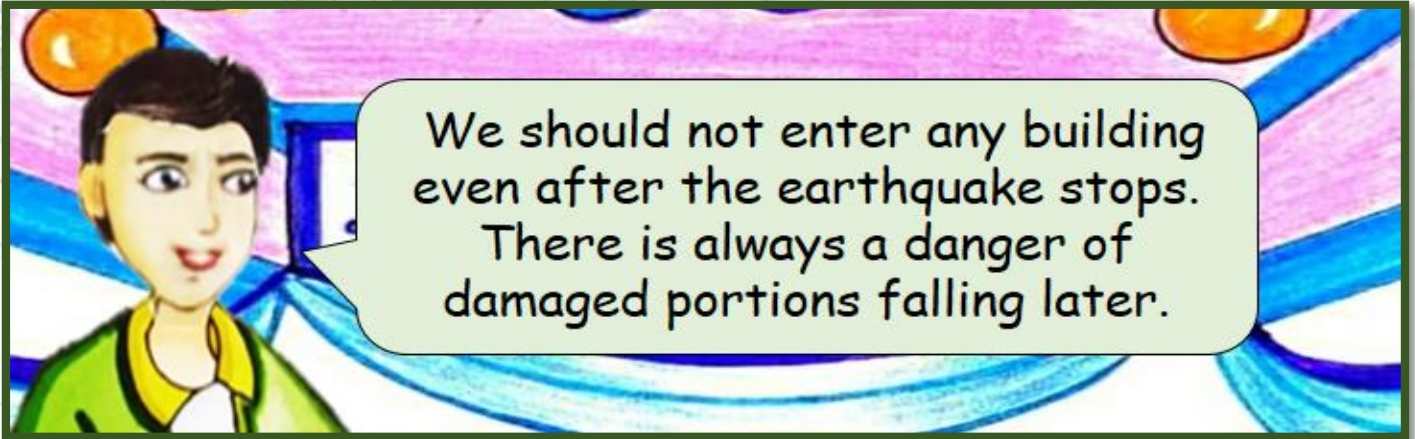
Megha & Manu describe the precautions that should be taken at the time of an earthquake.



Take shelter under any wooden table/bed to protect yourself from falling objects.



We should not enter any building even after the earthquake stops. There is always a danger of damaged portions falling later.



HOTS: Think & Answer

Why do you think one should go under a wooden table/ bed during an earthquake?

During an earthquake, heavy objects can fall on the people and injure them. Therefore, one should go under a wooden table/ bed.

ANSWER:

Check Yourself:

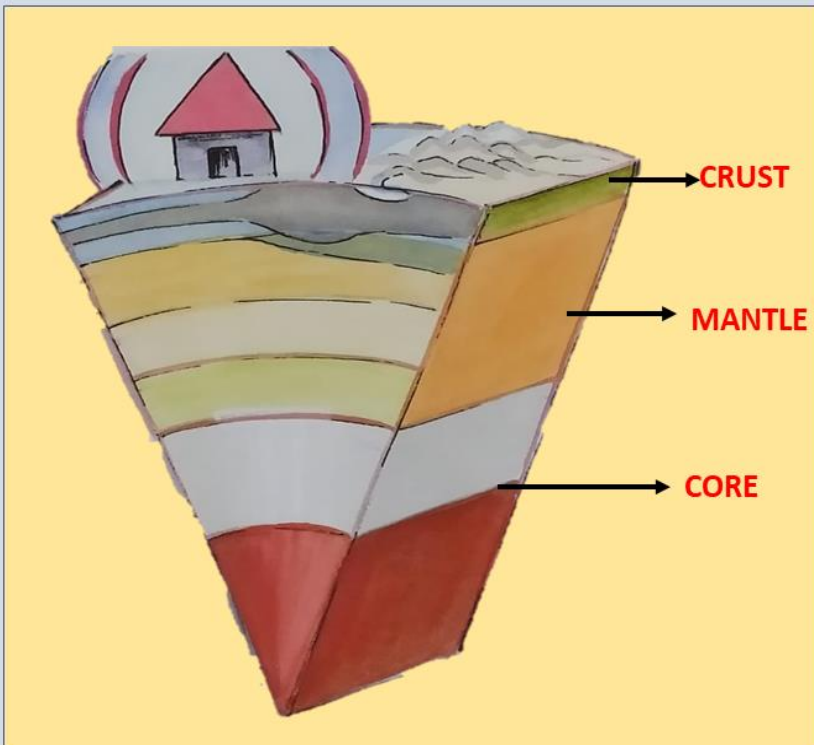
Fill in the blanks:

- i) An _____ is caused by movements deep inside the earth.
- ii) _____ is a scale of numbers to measure the intensity of an earthquake.
- iii) A severe earthquake took place at Bhuj in _____ on 26 January 2001.
- iv) Earthquakes are common in the _____ region of India.
- v) _____ is the study of earthquakes.

Earthquake, Richter Scale, Gujarat, Himalayan, Seismology

ANSWERS:

Factopedia



Crust- The outermost and thinnest layer of the Earth is known as the crust.

Mantle- The middle layer of the Earth between the crust and the core is known as the mantle.

Core- The innermost layer and the centre of the Earth that is very hot and dense is known as the core.



TSUNAMI

Manish, have you heard about *tsunami*?

Tsunami? Another natural disaster?

Manu defines a tsunami.

A Tsunami is a series of very high waves in the sea, created by undersea disturbances such as earthquakes, volcanic eruptions, landslides.



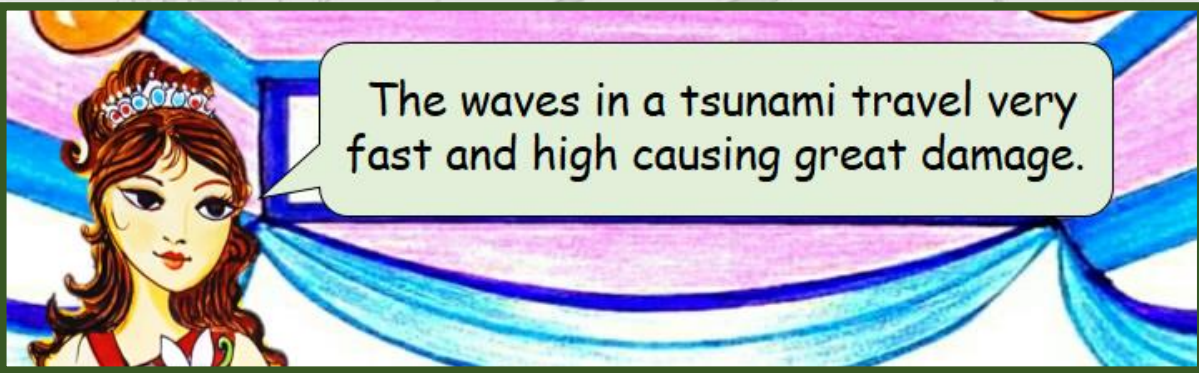
Do you know?

*Natural disaster is a calamity caused by nature.
E.g. earthquakes, cyclones, floods etc.*

YES!! My grandfather had told me about the tsunami that hit South-East Asia on 26 December 2004.



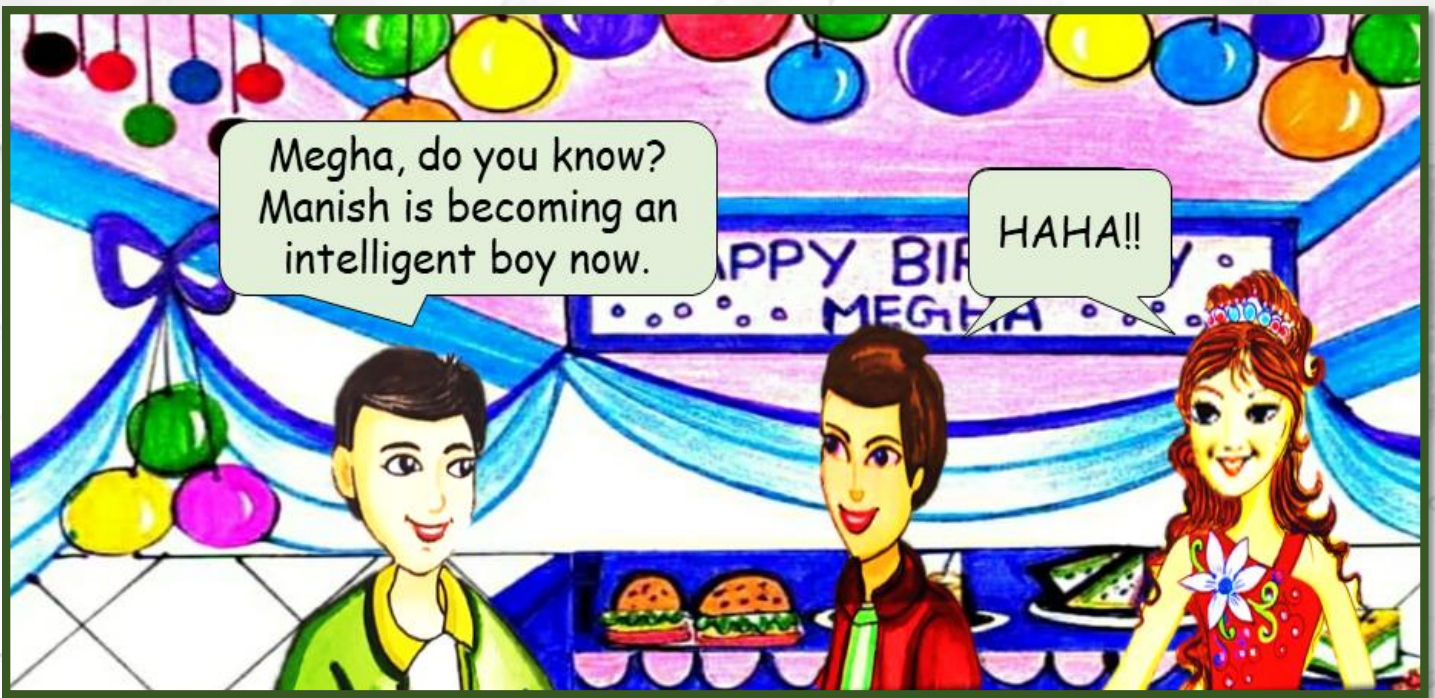
The waves in a tsunami travel very fast and high causing great damage.



But tsunami warning systems warn of tsunamis in advance.

Yes Manu, so that people living near the coast can shift to higher grounds and stay safe.





Check Yourself:

State whether the following statements are true or false:

- i) A tsunami is a series of very high waves in the sea.
- ii) A tsunami is caused by excessive rainfall.
- iii) A severe tsunami hit Europe on 26 December 2004.
- iv) Tsunami warning systems warn of tsunami in advance.
- v) Natural disasters cause great loss of life and property.

True, False, True, True, True.

ANSWERS:

Do you know?

About 80% of the tsunamis occurs within the Pacific Ocean's 'Ring of Fire'.



FLOODS AND CYCLONES

Saloni is singing the birthday song for Megha.



Happy Birthday To You!
Happy Birthday To You!
Dear Megha ♪♪♪♪♪.....



Thank you so much
Saloni didi.

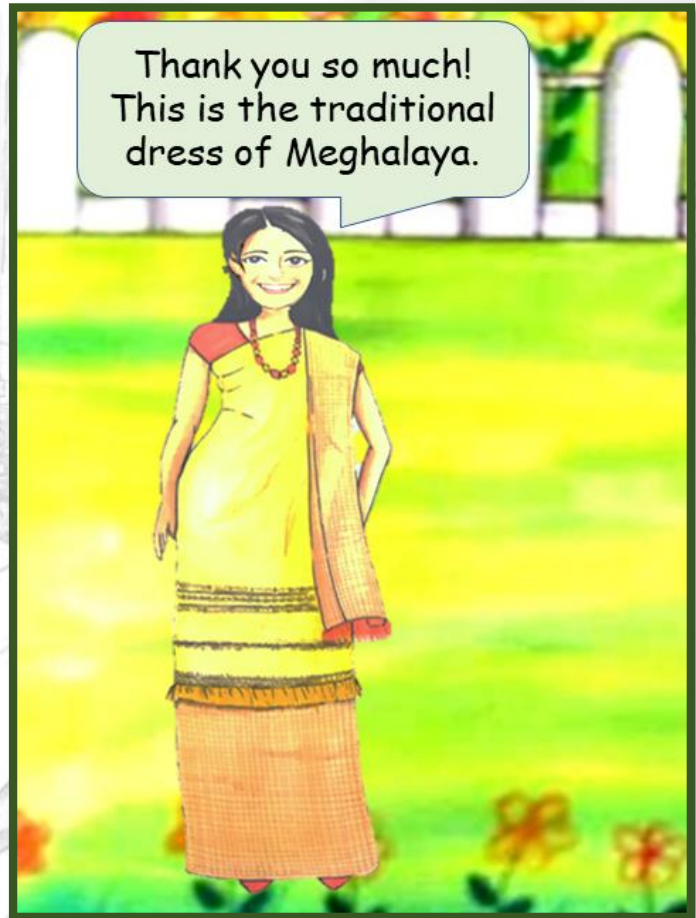
Friends, meet
my cousin
Saloni didi.



Hello didi.



Didi is studying at the
University of Science
and Technology in
Meghalaya.



Do you know?

The traditional dress for women in Meghalaya is known as 'Jainsem'.

Megha's mother calls them for the snacks.



Everyone is having snacks in the dining hall & Manish is curious to know about Meghalaya.

Didi, tell something more about Meghalaya.

Manish, Meghalaya is one of the seven sister states of North-East India.

It is also known as The Abode of Clouds.

Meghalaya is one of the wettest places in India.

...because it gets heavy rainfall during monsoon.

Didi, what happens due to heavy rainfall?

Manish, I think today you want to collect all the information about various natural disasters.

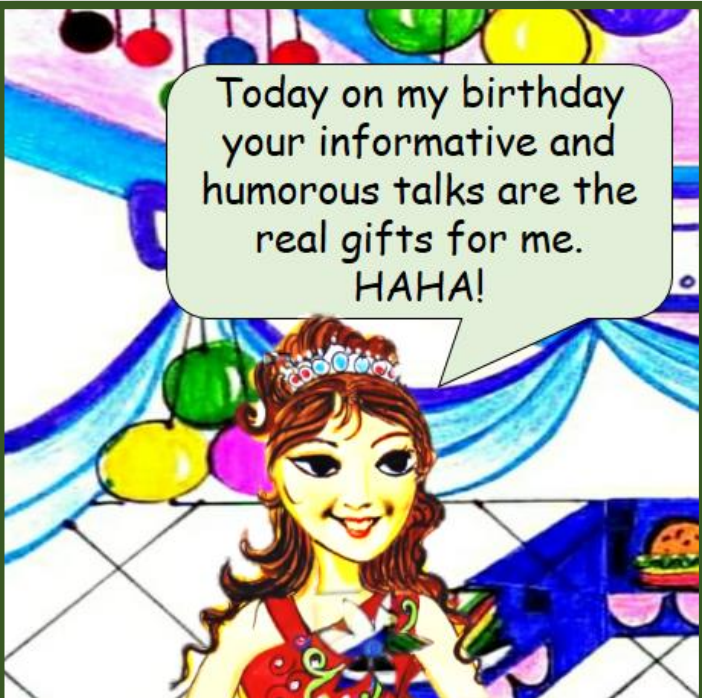
HAHA!

Heavy rains and melting snow make the rivers flow over their banks/water logging nearby areas. It is known as **floods**.

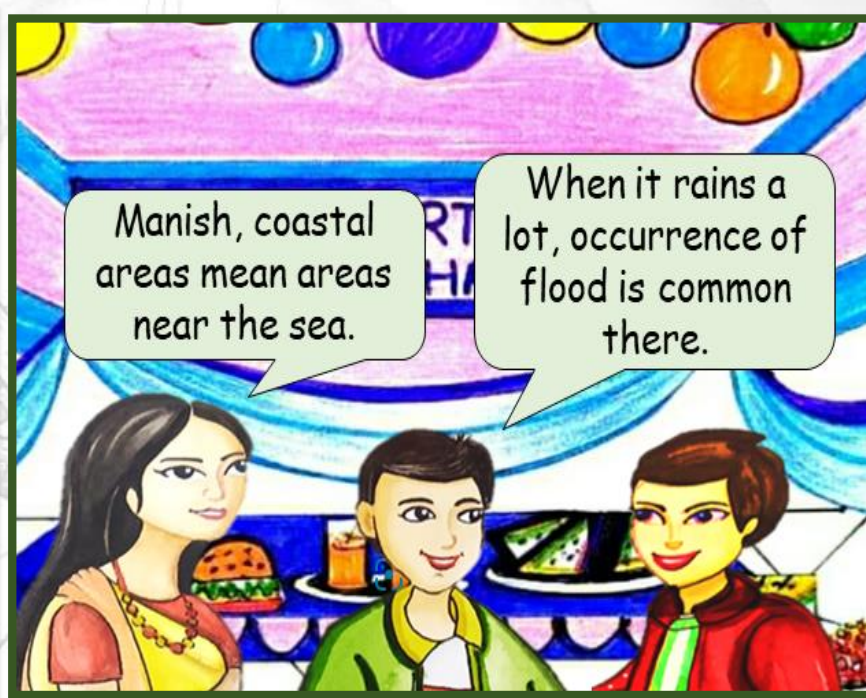


FLOODS



A cartoon illustration of a girl named Saloni with brown hair, wearing a tiara and a red dress, holding a gift. She is in a room decorated with colorful balloons and streamers.

Today on my birthday
your informative and
humorous talks are the
real gifts for me.
HAHA!

A cartoon illustration of Saloni, a boy named Manish, and another boy sitting at a table with food. Saloni is wearing a yellow sari, Manish is in a green shirt, and the other boy is in a red shirt.

Manish, coastal
areas mean areas
near the sea.

When it rains a
lot, occurrence of
flood is common
there.

Saloni tells about the disadvantages of floods.

A cartoon illustration of Saloni, a girl with long black hair, wearing a yellow sari and a red necklace, standing against a pink and blue background.

Floods damage
crops, roads and
buildings.

There is a shortage of
food, drinking water
and shelter.

The unhygienic
conditions arise and
cause to diseases such
as cholera, diarrhoea and
malaria.



Now a days, the weather forecast warns us of the adverse weather conditions ahead of time.



Like tsunami, one should move to a safer place on higher ground with storage of food, water and medicines.



Yes... besides this, we can prevent floods by making river embankments, construction of dams and promoting afforestation etc.

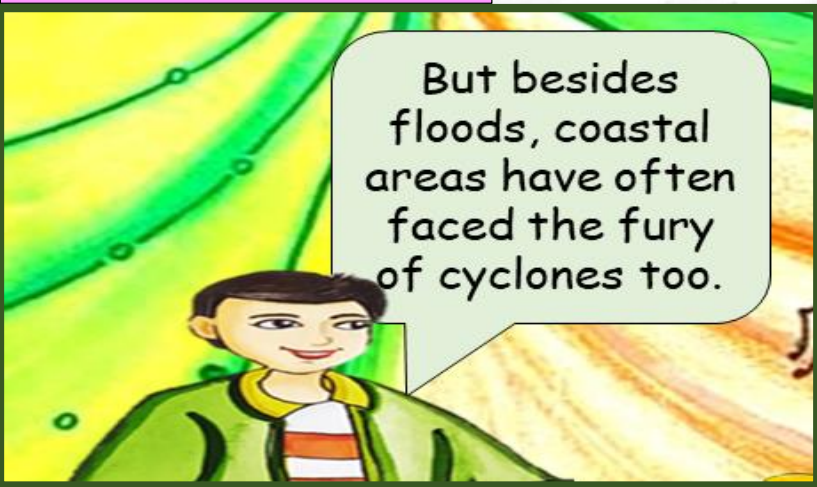


All work and no play makes Jack a dull boy.....
So friends let's move towards the gaming zone.

Saloni continues to explain the advantages of floods.



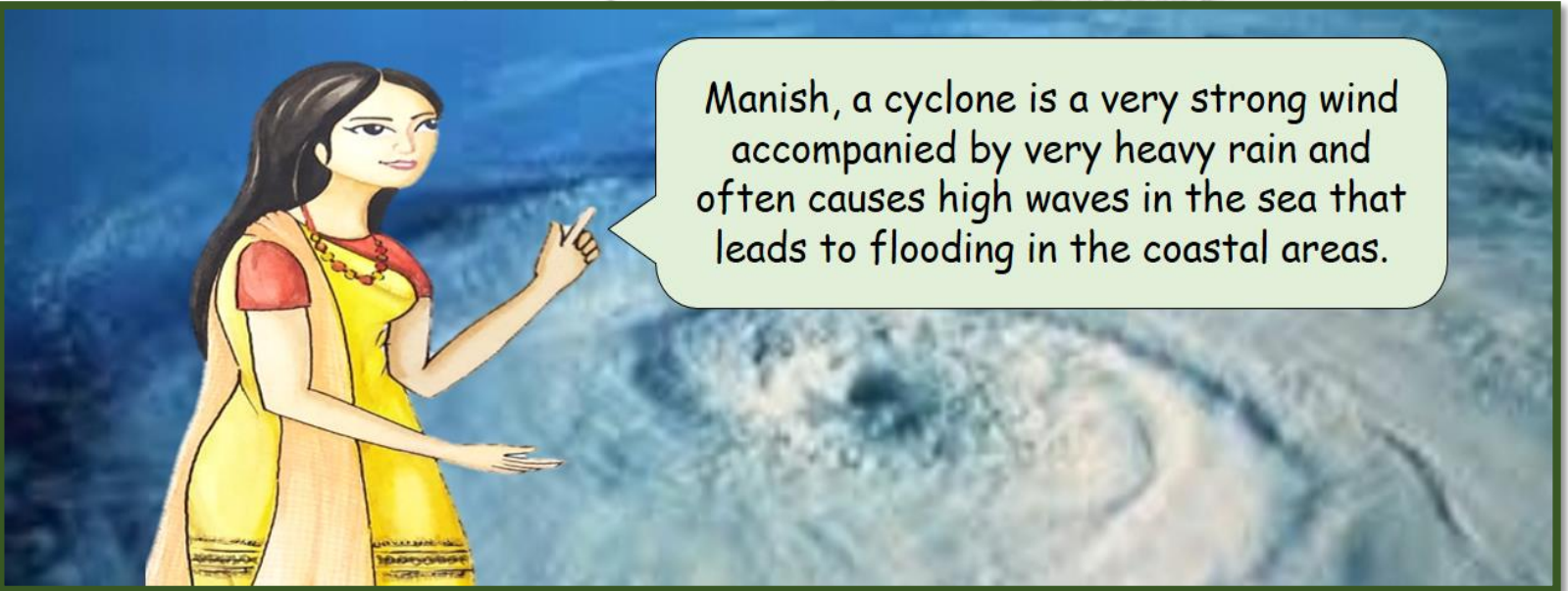
Floods have some advantages also.
Flood water brings with it fertile and mineral rich soil from the hills.

A young boy with dark hair, wearing a green jacket over a striped shirt, is speaking. The background is a bright yellow and green abstract pattern.

But besides floods, coastal areas have often faced the fury of cyclones too.

A young boy with dark hair, wearing a red jacket over a blue shirt, is shown from the chest up. He has his hand on his forehead in a thinking pose. A thought bubble above him shows a red bicycle.

Cycle..... Cyclone?

A young girl with long dark hair, wearing a yellow dress with a red border and a red necklace, is pointing her right index finger towards the right. The background is a blue and white abstract pattern.

Manish, a cyclone is a very strong wind accompanied by very heavy rain and often causes high waves in the sea that leads to flooding in the coastal areas.

A young boy with dark hair, wearing a red jacket over a green and white striped shirt, is speaking. He is holding a yellow and black object. The background is a bright yellow and green abstract pattern.

Saloni didi, I remember, once I saw on news channel about a cyclone that hit some coastal areas.

A young girl with long dark hair, wearing a yellow dress with a red border and a red necklace, is smiling. The background is a bright yellow and green abstract pattern.

That's great Manish! You watch the news channels too.

A young boy with dark hair, wearing a red jacket over a blue shirt, is shown from the chest up. He has his hand on his forehead in a thinking pose. The background is a bright yellow and green abstract pattern.

Is it possible every time to move to safer places?



Yes, a good weather forecasting system can predict cyclones and warn people in advance.

This gives people time to move to safer places.

They can also take their animals and other belongings with them.



HOTS: Think & Answer

A newspaper headline read: “*Flooding in Delhi due to cyclones*”. What do you find wrong in this headline?

Cyclones occur only in coastal areas and there is no sea around Delhi.

Check Yourself:

Name the following:

- i) The traditional dress worn by women in Meghalaya.
- ii) The state that is also known as 'The Abode of Clouds'.
- iii) Water logging due to heavy rains and melting snow in river banks and its nearby areas.
- iv) A very strong wind accompanied by very heavy rain.

Jainsem, Meghalaya, Floods, Cyclones

ANSWERS:

Tick the correct option:

- i) We can prevent flood by **afforestation\deforestation**.
- ii) Disease caused by unhygienic conditions after floods **cholera\corona**.

afforestation, cholera

ANSWERS:

Do you know?

Check-dams are small dams built across shallow rivers and streams to retain excess water during monsoon. A part of the water seeps into the ground and replenishes groundwater.



DROUGHT AND DISASTER RELIEF ORGANIZATIONS

Everyone is in the kitchen having a look on the left over food.



We can give it to the relief camp.



Sure Saloni, what a noble thought.





Do you know?

Money or help given out of kindness to the poor and needy is called charity.

Manu's mother arrives to pick him up.





Hello children.



Hello aunty!
Did you also experience the earthquake?

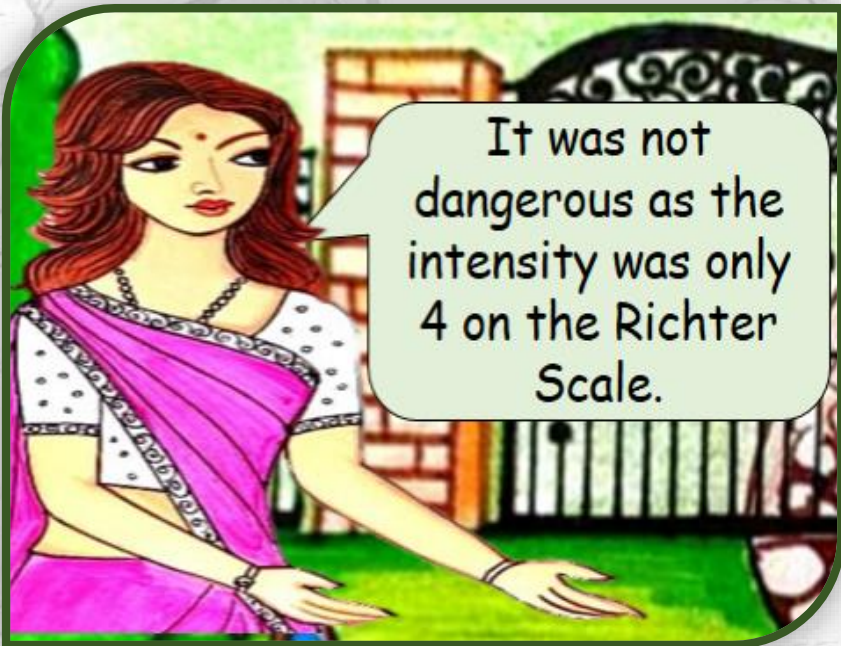


HAHA!
Yes.



Aunty, please tell us about the intensity of today's earthquake?

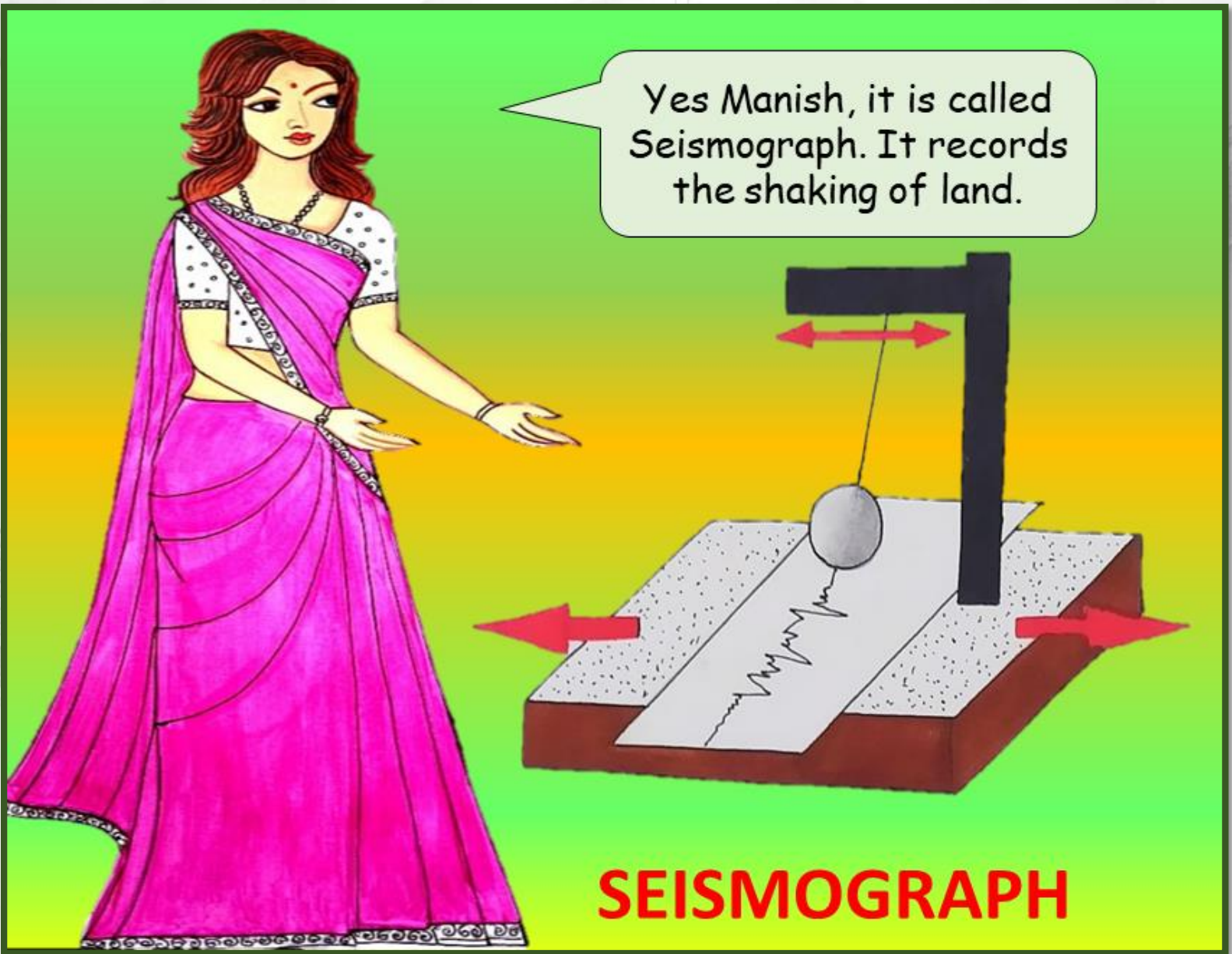
Aunty, did you measure it on the Richter Scale?



It was not dangerous as the intensity was only 4 on the Richter Scale.



Is there any instrument for this?



Yes Manish, it is called Seismograph. It records the shaking of land.

SEISMOGRAPH



Ok aunty,
Thank you.



Honking

Let's go to the
relief camp.

All are going to the relief camp.



Manish, first we will go to the relief camp then we will drop you.

Can I ask one question?
Please...



HAHA...Yes, Manish.

HAHA!
Today is your day.

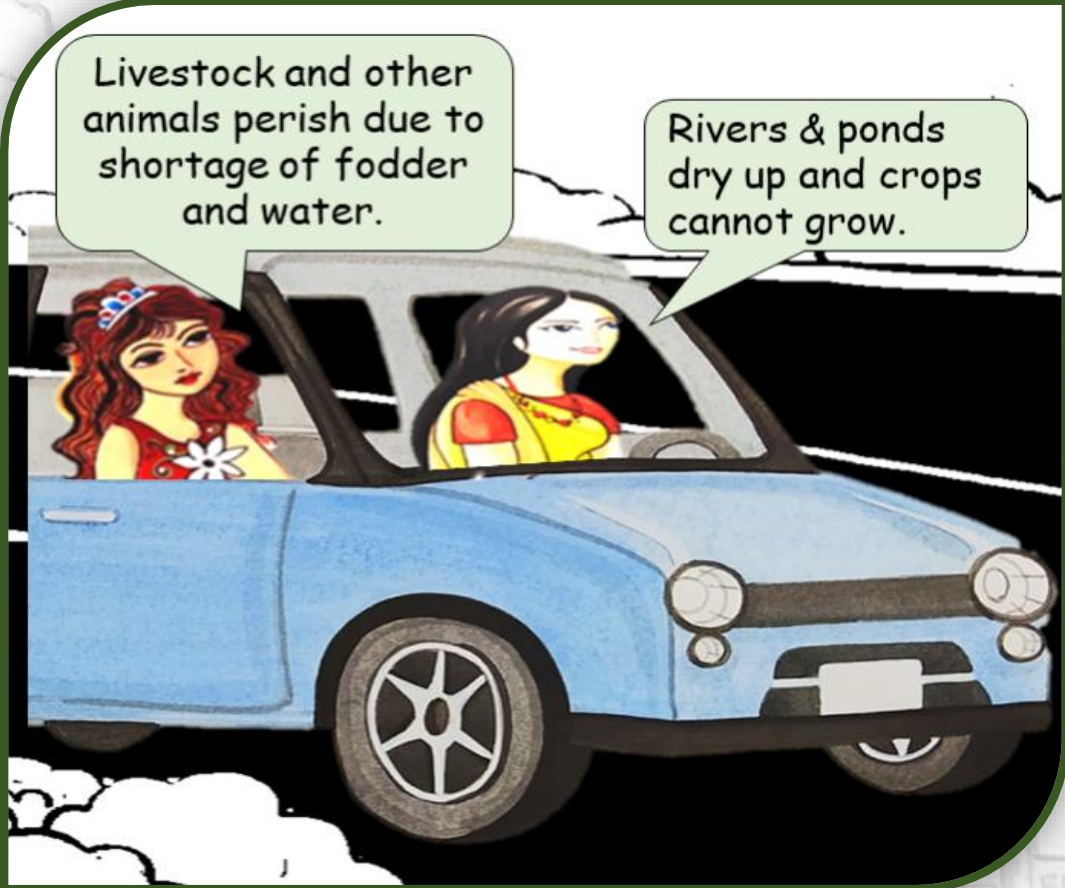


Which relief camp?



We are going to the relief camp for helping the drought victims.

What is drought?

A blue car is shown from a side-front perspective. Two women are inside: one with long dark hair wearing a yellow and orange sari (Saloni) is driving, and another with long red hair wearing a red dress (Didi) is sitting in the passenger seat. The car is on a road with some white clouds or smoke at the bottom. Two speech bubbles are present: one from the passenger and one from the driver.

Livestock and other animals perish due to shortage of fodder and water.

Rivers & ponds dry up and crops cannot grow.

A smaller inset image shows a woman with short brown hair wearing a red jacket, sitting in the driver's seat of a blue car. A speech bubble is next to her.

Didi, what happens after drought?

In severe droughts, people may even die because of shortage of food. This is called a *famine*.



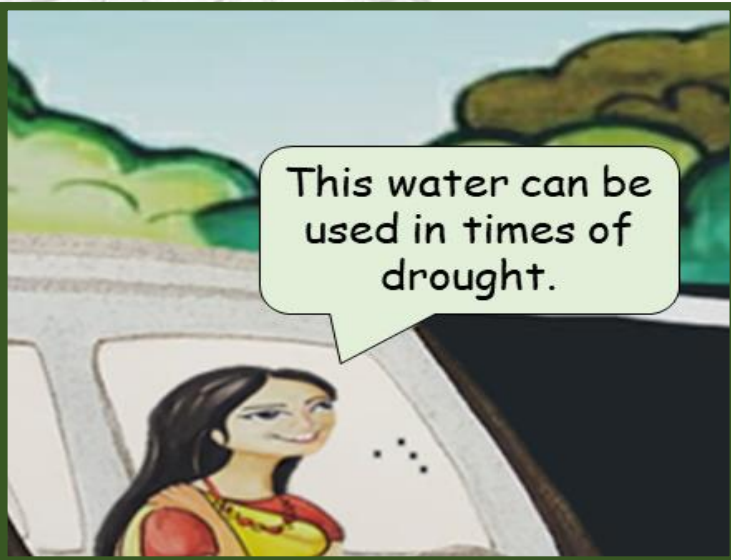
Can we take some precautions to prevent drought?



Yes, there are so many ways like afforestation, water harvesting where rain water can be stored under the ground.



This water can be used in times of drought.



Ok, that was very informative and we are almost there.



Check Yourself:

Unscramble the following words with the help of clues given:

i) TRHCAIY –

Money or help given out of kindness to the poor or needy.

ii) PROSESIMGHA –

An instrument to record the shaking of earth.

iii) HURDOGT –

Severe shortage of water due to failure of rain.

iv) EIAFMN –

Shortage of food causing large scale deaths of humans.

v) CMDPEIEI –

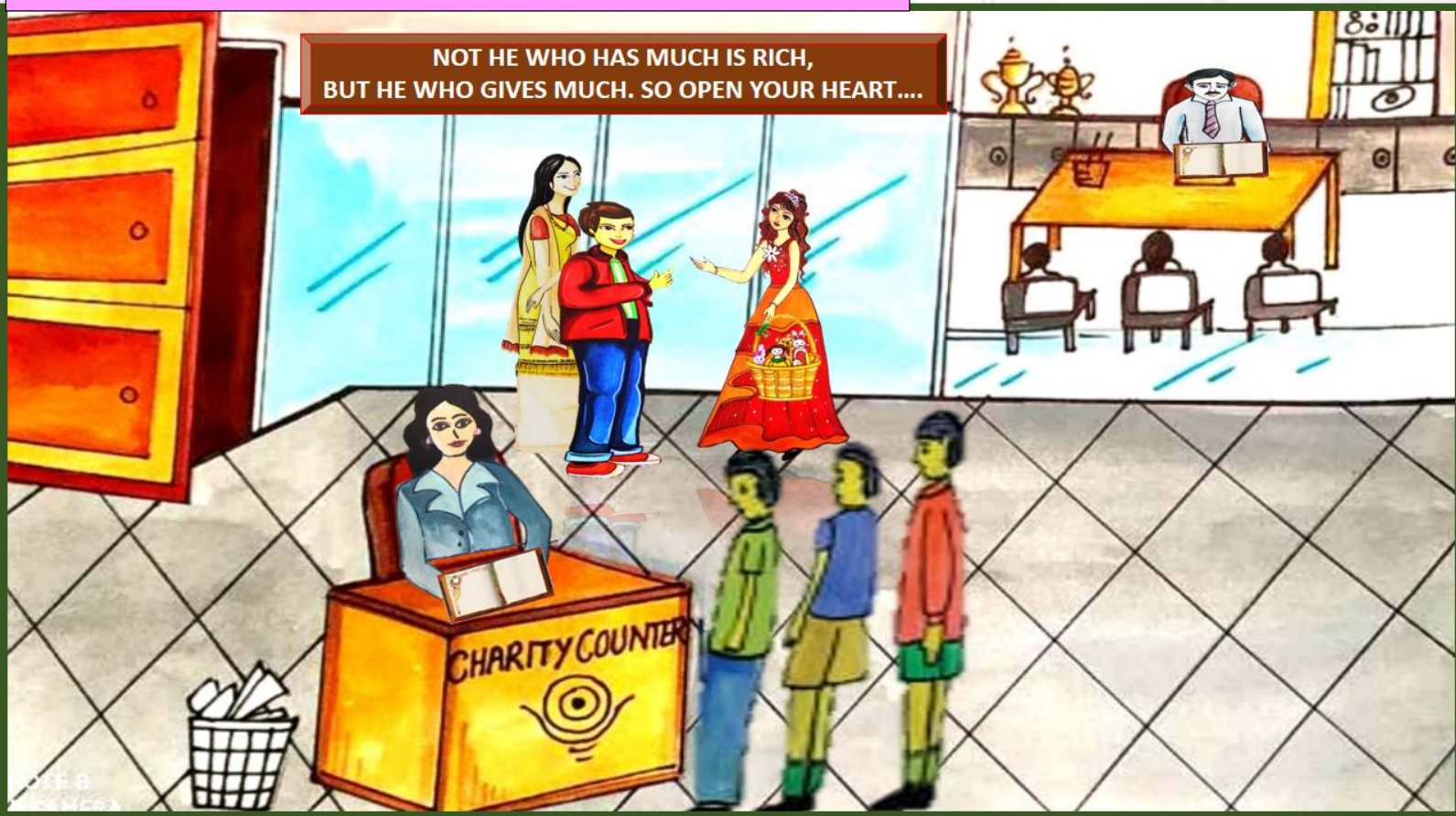
A large scale widespread of a disease.

ANSWERS:
CHARITY, SEISMOGRAPH, DROUGHT, FAMINE, EPIDEMIC

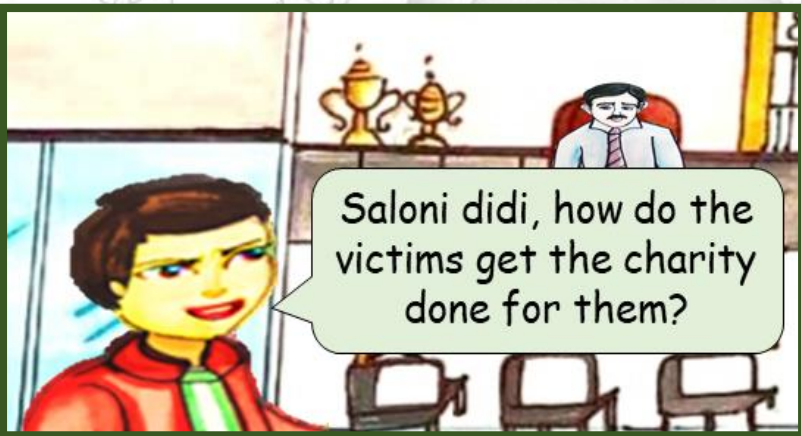
Do you know?

Natural Disaster Management Authority, abbreviated as NDMA, is an apex body to lay down policies for disasters in India.

NOT HE WHO HAS MUCH IS RICH,
BUT HE WHO GIVES MUCH. SO OPEN YOUR HEART....



Saloni didi, how do the
victims get the charity
done for them?



The government
organizes relief
work for the victims.



Come children,
I'll tell you.



The government sets up relief camps for the displaced people.

Food, drinking water, medicines etc. are provided to them.

Doctors are put on duty to control the outbreak of diseases.



The army is often called to evacuate victims.

They use helicopters to airlift stranded people, or to airdrop food and medicines for them.

Besides this, there are some NGOs (non-government organizations) which help these victims.

Yes, I have studied about these organizations in Social Studies.



Red Cross Society



World Health Organization



They are Red Cross Society, World Health Organization and...

and UNICEF!



Hmm Megha.. you know everything.



Saloni, Megha and Manish are returning home.





United Nations
International
Children's
Emergency Fund.



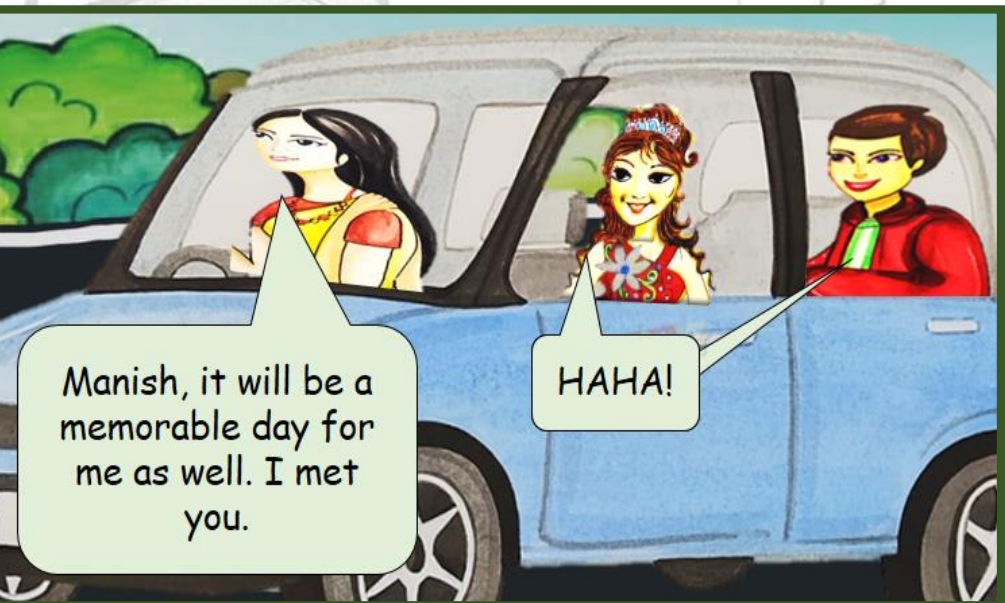
This organization
works for the
welfare of the
children.



Right, but I think this
is the duty of all to
help as much as we
can by doing voluntary
work.

Now I will also
donate books
and clothes.

Thanks Didi, today
will be a memorable
day for me. You have
given me a lot of
information.



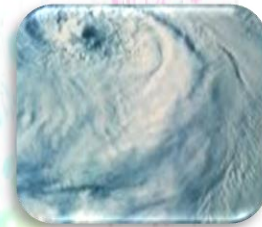
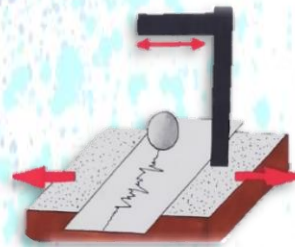
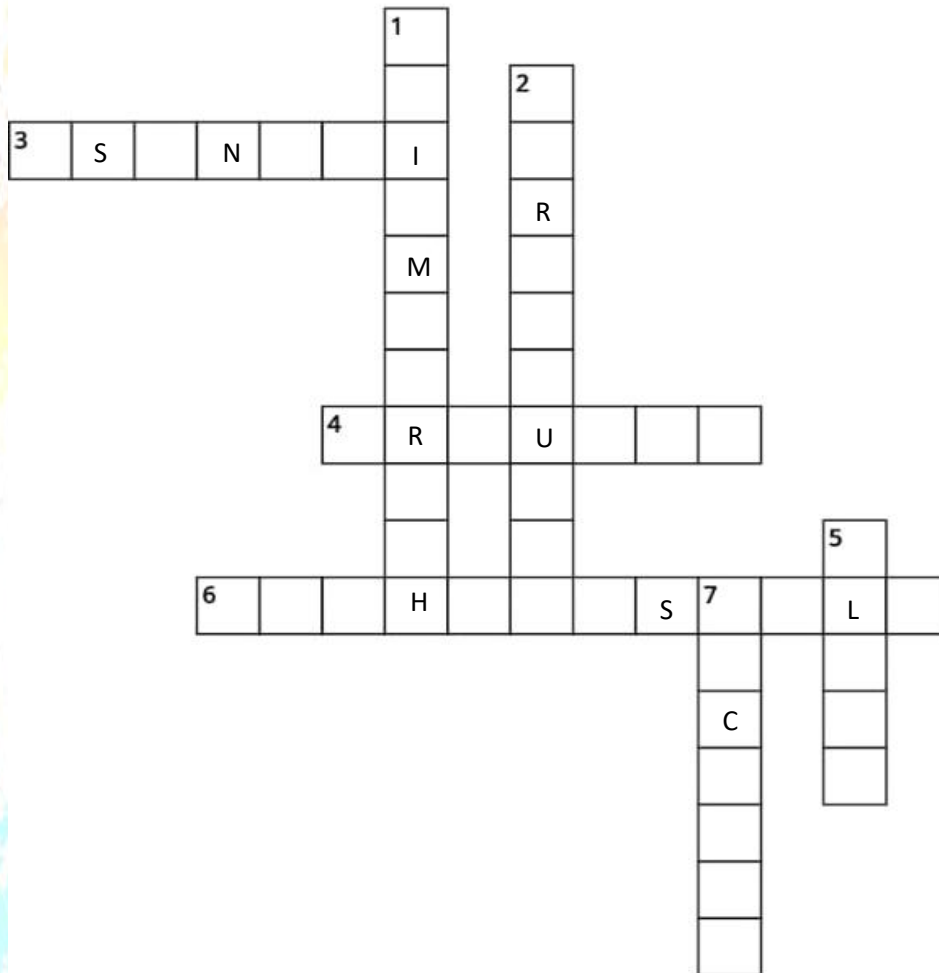
Manish, it will be a
memorable day for
me as well. I met
you.

HAHA!



It is a true saying
"When we all help
one another
everybody wins."

CROSSWORD



ACROSS

3. These very high waves can be caused by underwater quakes and can be dangerous.
4. When it does not rain and the land is very dry. It is very difficult to grow crops.
6. This is a scale of numbers to measure the intensity of an earthquake.

DOWN

1. This is an instrument to record the shaking of land.
2. This is when the land shakes and building may collapse.
5. When it rains a lot, river gets full. Water goes over the banks and into homes.
7. A powerful wind and strong rain that start in the ocean.

DOWN: 1. SEISMOGRAPH, 2. EARTHQUAKE, 5. FLOOD, 7. CYCLONE.

ACROSS: 3. TSUNAMI, 4. DROUGHT, 6. RICHTER SCALE.

Answers:

WORKSHEET

Q1. Fill in the blanks:

- i) Heavy rains make the rivers to overflow which can cause _____ in nearby areas.
- ii) _____ is caused by movements deep inside the earth.
- iii) An earthquake under the sea bed can cause a series of high waves in the sea called a _____.
- iv) In severe drought, there may also be widespread diseases leading to an _____.
- v) A _____ is very strong wind with very heavy rain in coastal areas.

Q2. Answer the following questions in one word:

- i) What is the study of earthquakes called?
- ii) What is the traditional dress for women in Meghalaya known?
- iii) What is severe shortage of water due to rainfall failure called?
- iv) Name the instrument used to record the intensity of earthquake.

Q3. Write the full form of the following:

- i) WHO-
- ii) UNICEF-

Answers: Q1. floods, Earthquake, tsunami, epidemic , cyclone.
Q2. Seismology, Jainsam, Drought, Seismograph.
Q3. World Health Organization
United Nations International Children's Emergency Fund

GLOSSARY

1. **Earthquake** : A sudden movement on the Earth's surface.
2. **Disaster** : An event that causes great damage to human life and property.
3. **Richter Scale**: A scale of numbers to measure the intensity of earthquakes.
4. **Seismology** : The scientific study of earthquake.
5. **Seismograph** :An instrument used to detect and record earthquakes.
6. **Tsunami** : A series of very high waves in the sea created by undersea disturbances.
7. **Weather forecast** : A statement of what the weather is likely to be for the next few days.
8. **Floods** : When it rains a lot, rivers fill up with water and start rising above their banks. The water then overflows into nearby land causing floods.
9. **Coast** : A place where land and sea meet.
10. **Cyclone** : A cyclone is a very strong wind accompanied by very heavy rain .
11. **Drought** : Sometimes the rains fail during the monsoon that causes severe shortage of water in the region is known as drought. A prolonged period of abnormally low rainfall, leading to a shortage of water.
12. **Crop** : A cultivated plant that is grown on a large scale commercially, especially a cereal, fruit or vegetable.
13. **Livestock** : Farm animals
14. **Fodder** : Dried hay and straw for cattle and other livestock.
15. **Famine** : A situation where shortage of food causes large scale deaths of humans.
16. **Afforestation** : The action of planting trees.
17. **Water harvesting** : The activity of direct collection of rainwater under the ground.

Hands On

Making of a First Aid box

Take a plastic box . Wash the box with soap & dry it. Neatly arrange the following things in the box.

- ☐ Packet of assorted adhesive bandages
- ☐ Package of sterile gauze
- ☐ Sterile bandages
- ☐ Sterile cotton
- ☐ Antiseptic ointment
- ☐ Small scissors
- ☐ Tweezers
- ☐ Thermometer



Art Work:

Design a poster with a catchy slogan to raise funds for disaster victims.

BIBLIOGRAPHY

- NCERT : Looking Around, EVS Class V
- New Success With Getting Ahead in Social Studies Class V
- Microsoft Power Point Presentation Software
- Microsoft Word Software

<https://youtu.be/ebITYzhDOCo> (expression)

https://youtu.be/dmz_lC7h6yc (costume colour changing)

<https://youtu.be/crFJIYLCMrE> (merging characters in backdrops)

<https://youtu.be/-BpxVSZbMX4> (sketching & colouring)

DISCLAIMER

All the characters, names, places and incidents in this graphic novel are fictitious. This graphic novel is just an imagination of the team members designed for a better understanding of the topic, *When The Earth Shook* for the students. The story line, script and graphics are the creation of the subject experts.

SUMMARY

The novel “*When The Earth Shook*” tells the readers about the various natural calamities through a comical story.

This novel is designed to help the readers to learn about the various natural disasters like earthquake, tsunami, cyclone, flood and drought. Occurrence of these disasters along with their adverse effects on living beings are mentioned in an explanatory way. The precautions we can take during these calamities are also described in a detailed manner. Government & various non-government organizations which help mankind are also mentioned.

Through this novel our team has tried to make the readers aware about every aspects related to natural disaster through an easy conversation.

FROM THE PRINCIPAL'S DESK

Dear Readers



'To embark on a journey towards the goal requires initiation,

To remain on that path requires determination,

To bridge the two requires commitment.'

Today, schools across the globe are trying to decipher the best case scenario that would provide pertinent knowledge outflow to learners in a consistently changing educational set-up. This calls for deviation from the traditional chalk and talk method towards practical experiential learning.

In these changing times the need of the hour is to root students firmly in an enabling constructive work ethic for their meaningful blossoming.

Graphic novel just like traditional forms of literature can be a useful tool for helping students critically examine aspects of Social Science, Science, Math, Languages and Art. Hence fostering of acquisition of critical reading skills is brought about.

In modern era, graphic novels will definitely prove to be a boon not only for publication but also for the young readers. The team has tried to infuse creative work with more meaning, a greater purpose for the readers to set the mood to understand important concepts. It is a great pleasure to announce the accomplishment of this graphic novel based on natural disasters.

It has the potential to appeal to almost any reader. It is a vibrant and compelling tool for teaching.

I extend a heartfelt and sincere thanks to honourable Mr. Manoj Ahuja, Chairman CBSE for providing our school the privilege of being in the league of futuristic schools. My sincere thanks to Mrs. Anita Karwal Secretary, (SE&L) and to Dr. Biswajeet Saha, Director Skill Education and Training CBSE and a special vote of thanks to Mr. Sandeep Sethi (Director Education, M.S.M.S II and Museum Trust) for his perseverance and guidance.

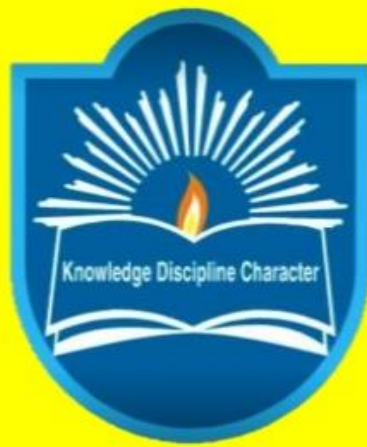
I congratulate my entire team for putting in the hard work and dedication in the making of this graphic novel. The reflection of the teachers' creativity is the epitome of the novel and will surely stir the minds of the readers and take them to the fantastic world of unalloyed joy and pleasure.

It is anticipated that this graphic novel will find acceptance and appreciation from all.

Happy Reading!

God Bless All!

Sudhanshu Shekhar
Principal
K. L. International School
Meerut



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