



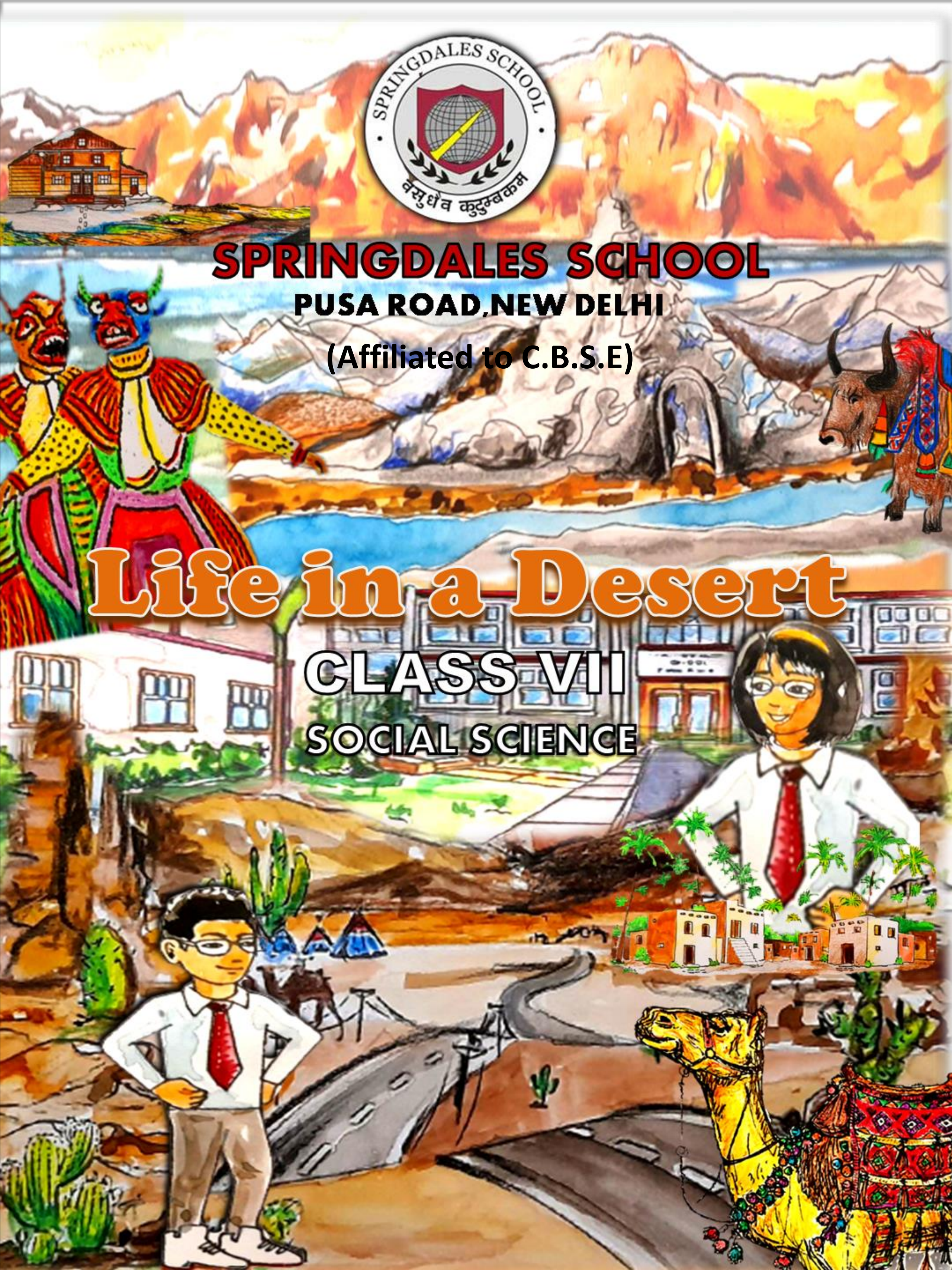
SPRINGDALES SCHOOL

PUSA ROAD, NEW DELHI

(Affiliated to C.B.S.E)

Life in a Desert

CLASS VII
SOCIAL SCIENCE



ACKNOWLEDGEMENT

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PREFACE

The story of this novel unfolds when two friends get teleported to Ladakh with the help of a quaint device which they discovered in their school playground. Students on reaching Ladakh, meet a local boy. While conversing with this local boy, the students come to know about life in this cold desert. This graphic novel also acknowledges the development in the field of education and technology by a great reformer and scientist, Mr Sonam Wangchuk.

The two students in the latter half of the story get teleported to Sahara where they make friends with two nomads. They learn about the lifestyle, flora and fauna of the region.

This novel also offers various research oriented activities and map work in order to keep the readers engaged and giving them the opportunity for lateral thinking.



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To access the comic book and additional interactive digital content, download DIKSHA app from Google Play Store on your android smart phone or tablet.

DISCLAIMER

This graphic novel/comic is a support material to develop the interest of the learners in understanding the concept of “Life in the Deserts”. The content is developed by the faculty of Springdales School, Pusa Road. This creative output ensures originality of content, ideas and illustrations.

The story has truly been the work of imagination and the characters and incidents are purely fictitious. This graphic novel is inspired by a great reformer and scientist, Mr Sonam Wangchuk and also acknowledges his contribution in the field of education and technology. The content aims to ensure the better understanding of the concepts to the students. It gives them a wide scope to explore research oriented activities.

Certain characters, places and incidents are the product of imagination and any resemblance to actual persons, living or dead or actual events or locals is entirely coincidental. No part of this novel can be scanned.

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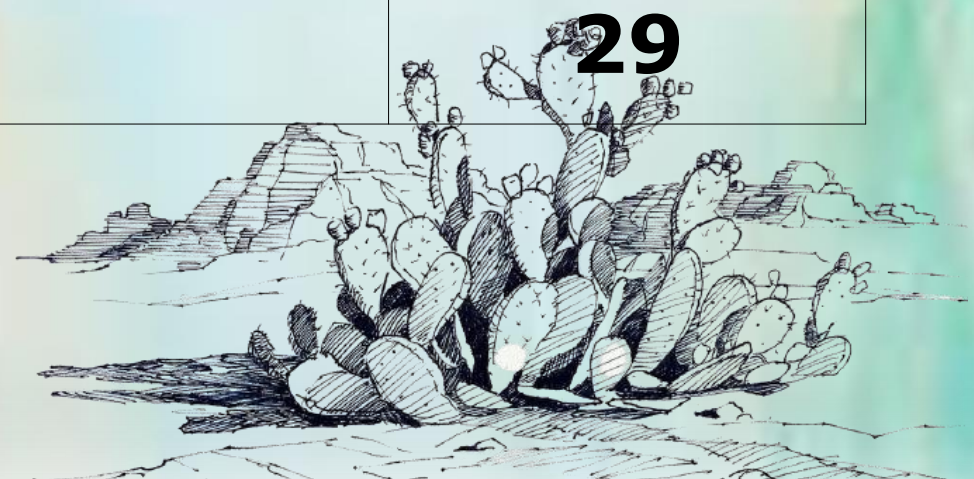
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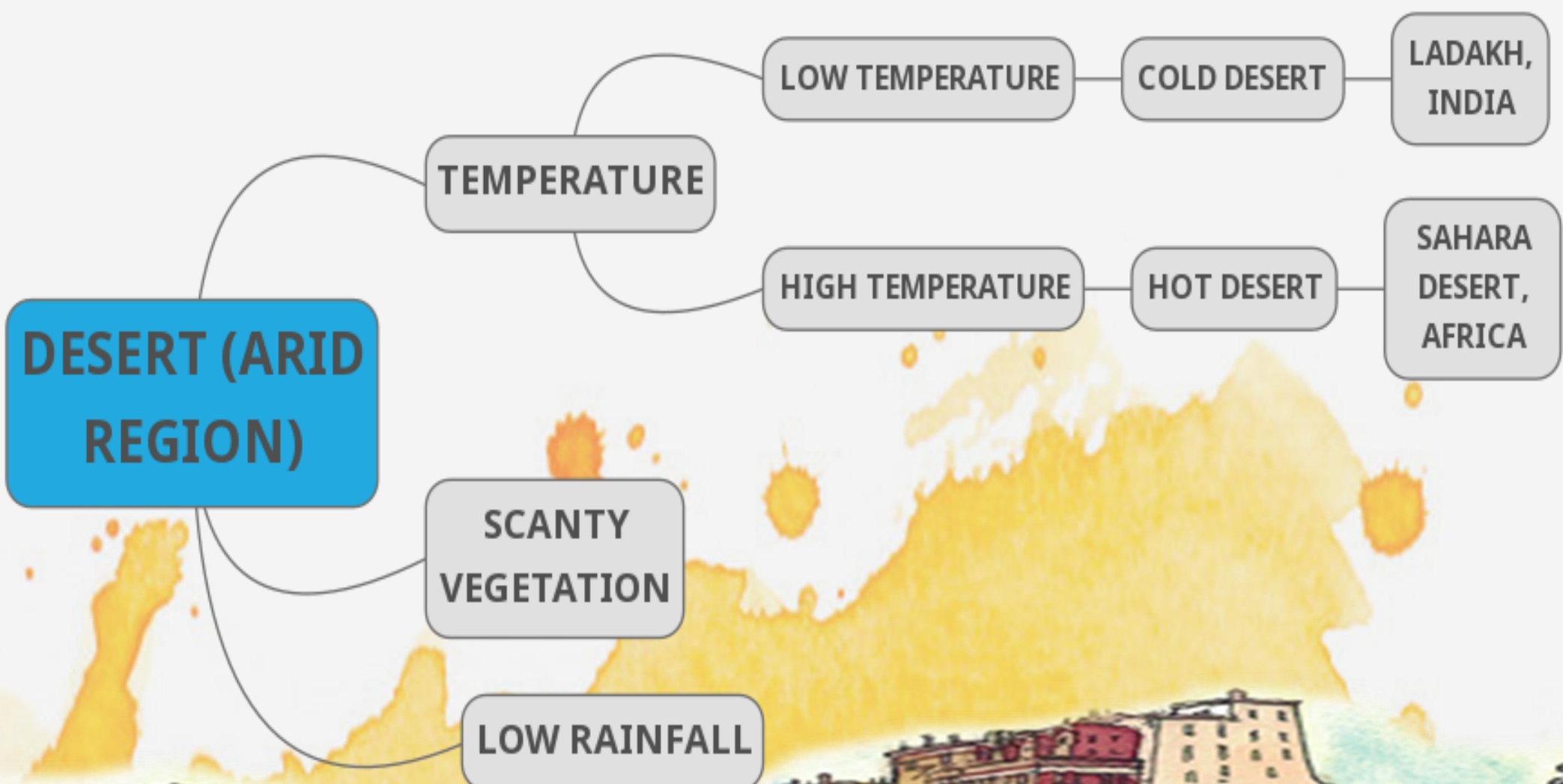




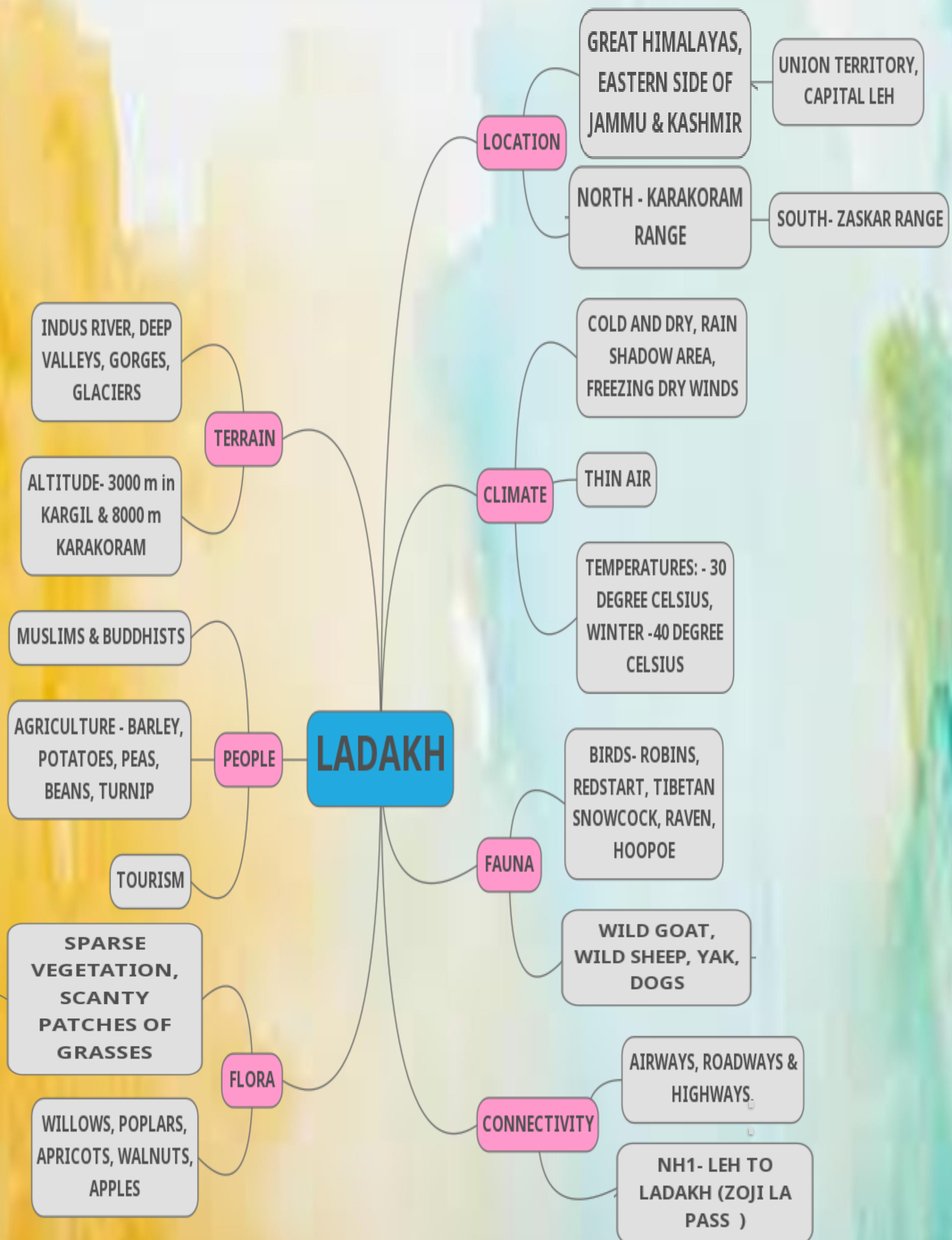
LEARNING OUTCOMES

- Students will have a knowledge about climate, flora and fauna and life of people in both deserts – Hot and Cold.
- Students will be able to understand and appreciate the balance created by the interrelation between humans and natural environment.
- Students will be able to identify similarities and differences between two types of desert.
- Students will understand the universal need to conserve water and learn about water conservation methods adopted in desert.
- Students will be able to analyse and identify the factors that affect development of specific regions (hot and cold desert).

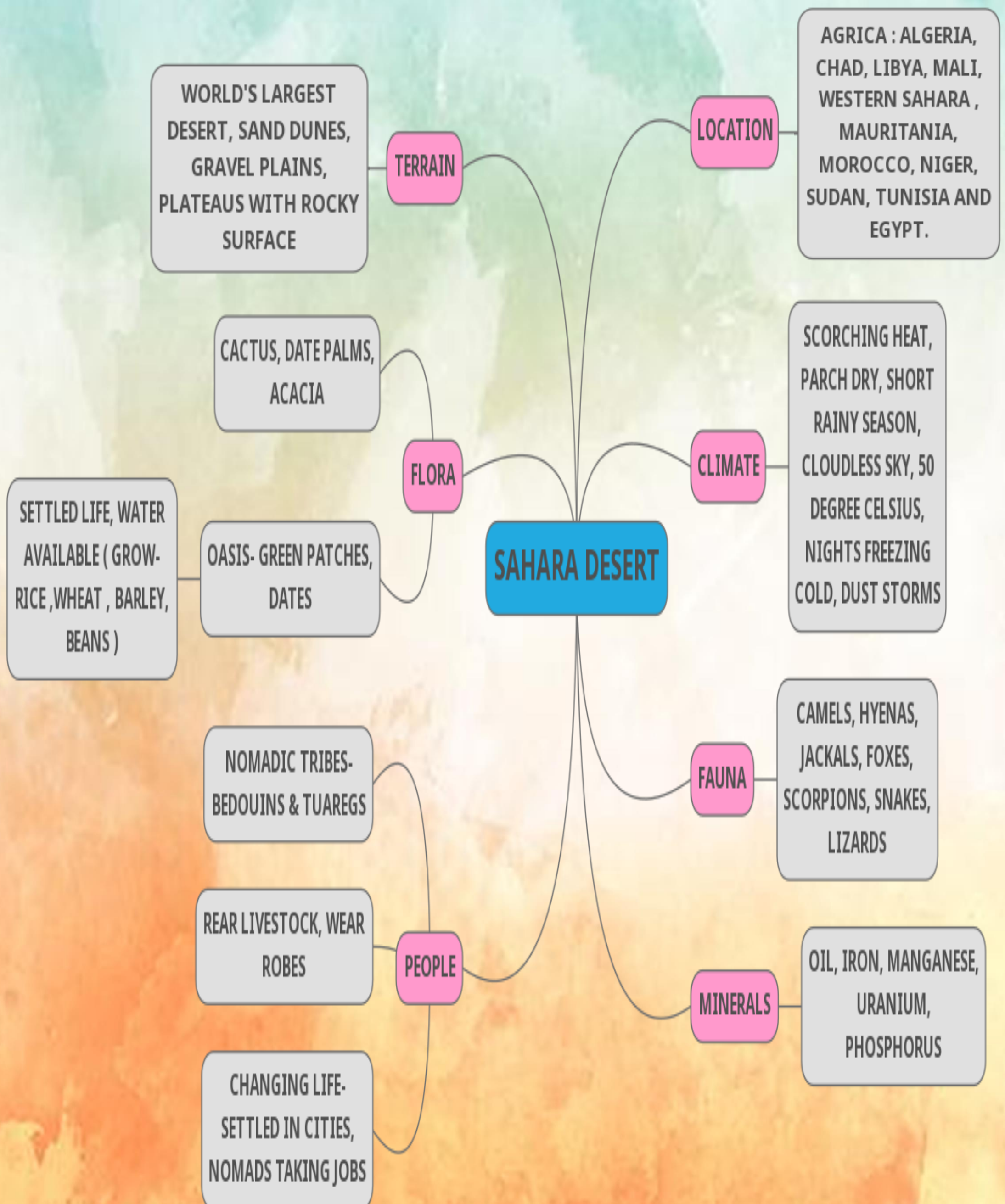
CONTENT OF THE STORY BOARD



CONTENT OF THE STORY BOARD



CONTENT OF THE STORY BOARD



CHARACTERS



AMAN

An 11 year old boy studying in grade VII, he is inquisitive and loves to ask questions and explore the things around.



SUMITA

An 11 year old girl studying in grade VII, she has varied interests and desire to explore new things.



ABDUL

He is an 11 year old Muslim boy who lives in Ladakh. He goes to school and also takes care of animals and helps in other daily activities.



MR. WANGCHUK

Mr Sonam Wangchuk is an Indian engineer, innovator and education reformist. He was supposedly the inspiration behind Aamir Khan's Phunsuk Wangdu in 2009 film 'Three Idiots'. He set up the Students' Educational and Cultural Movement of Ladakh (SECMOL) in 1988. The non-traditional residential school inspired many young minds in Ladakh to pursue their education. Apart from reforming the lives of young people through education, he addressed the issue of water scarcity by creating artificial glaciers (ice stupas) and used solar energy to light up dark houses in the region.



ABU

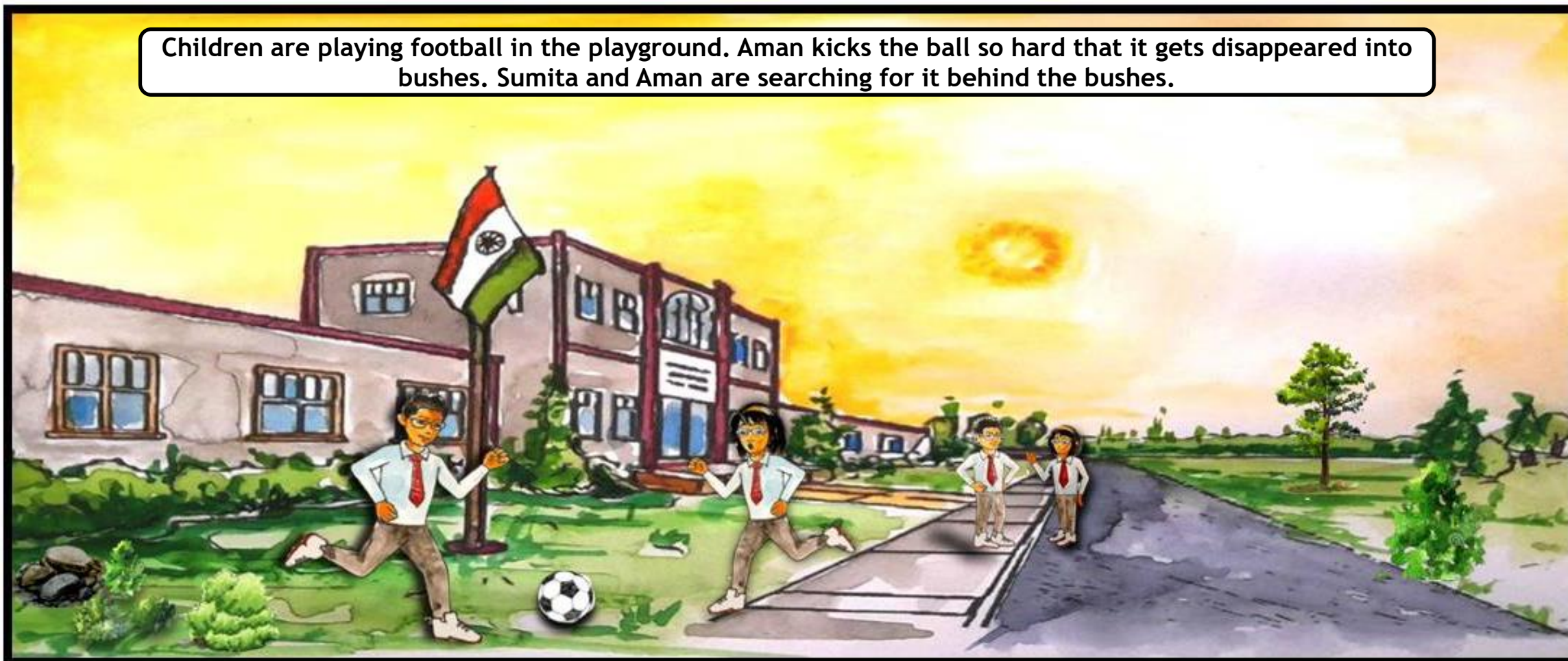
He is a 14 year old boy belonging to the Bedouin Nomadic Tribe. He is a very amiable personality.



NOOR

She is a 14 year old girl belonging to the Tuareg Nomadic Tribe. She is very hardworking and loves to interact with others.

Children are playing football in the playground. Aman kicks the ball so hard that it gets disappeared into bushes. Sumita and Aman are searching for it behind the bushes.



Have you seen the football ?

It was here only a while ago. Let's look for it there.



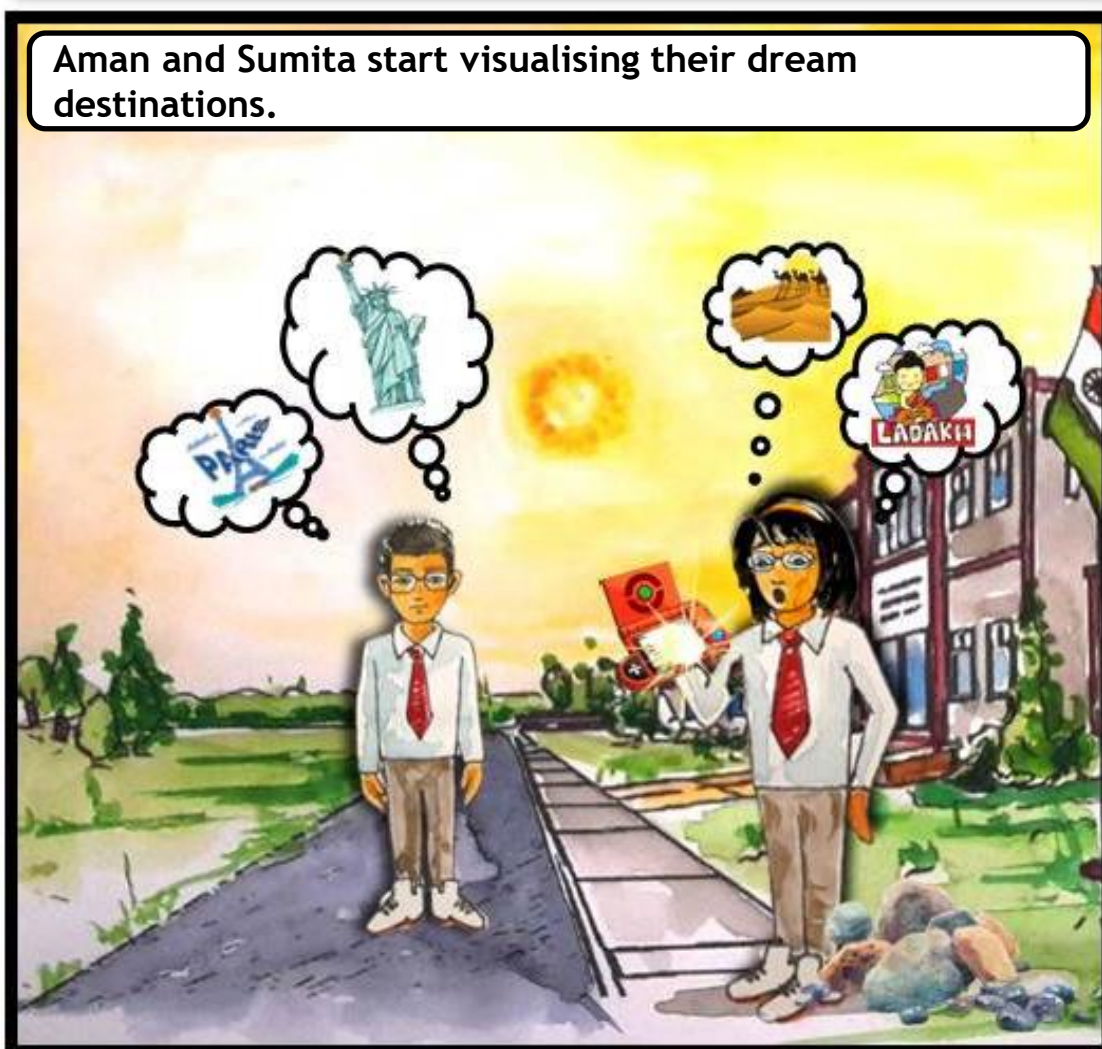
Behind the bushes, Sumita and Aman see a glowing object and out of curiosity they pick it up.

What is this? Looks like a quaint device.

Hmm, look it says, '**Enter Destination you want to visit.**'



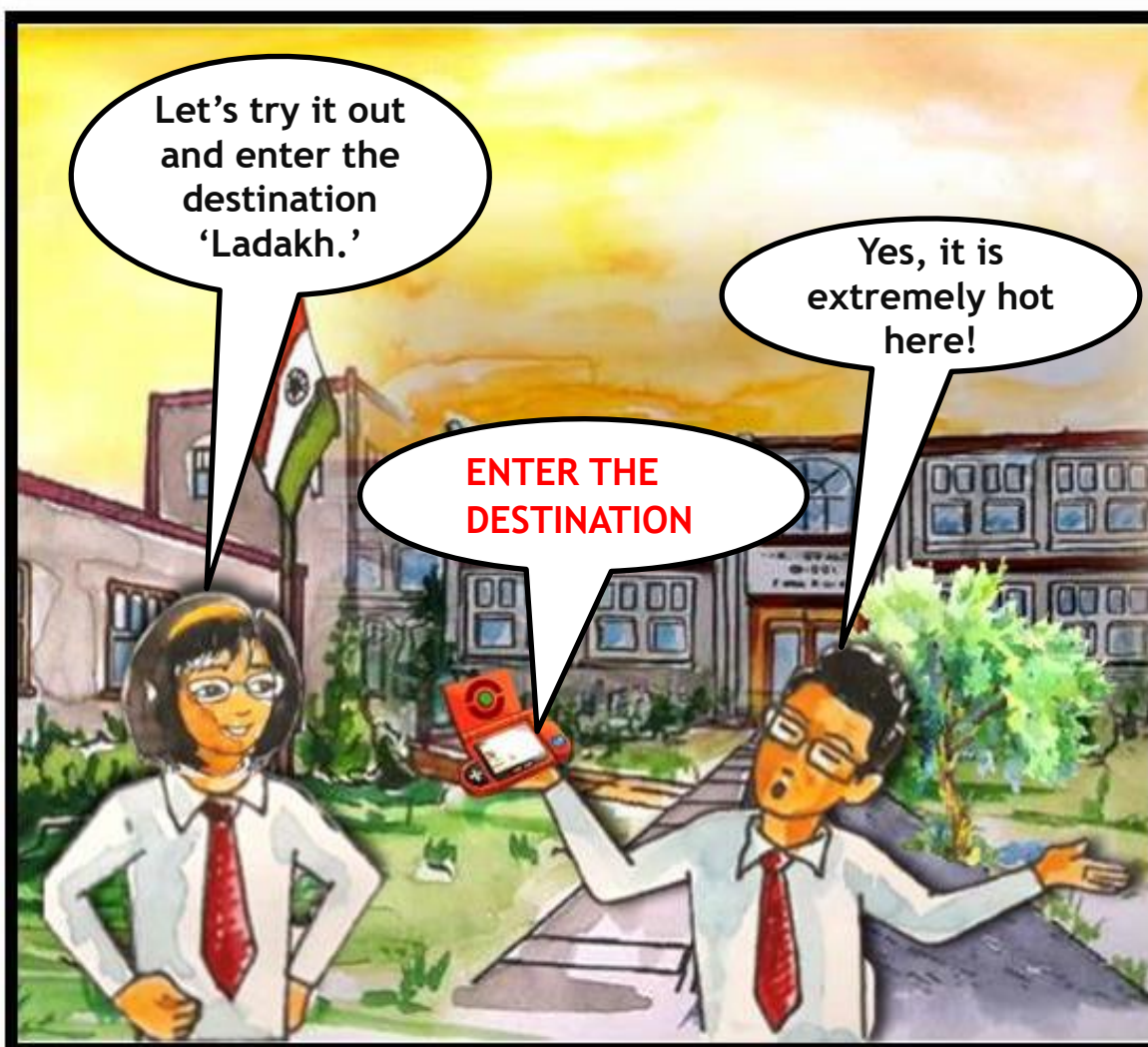
Aman and Sumita start visualising their dream destinations.



Let's try it out and enter the destination 'Ladakh.'

Yes, it is extremely hot here!

ENTER THE DESTINATION



Both the students find themselves amidst snow covered mountains, valleys and gorges. They are not sure where they are.

Is it the destination we had entered ?

Where are we ?

LADAKH !

LADAKH !

Let's call this boy and ask if this is Ladakh ?

A boy named Abdul is out with his flock of sheep.

You're right, we should. I am freezing with cold.

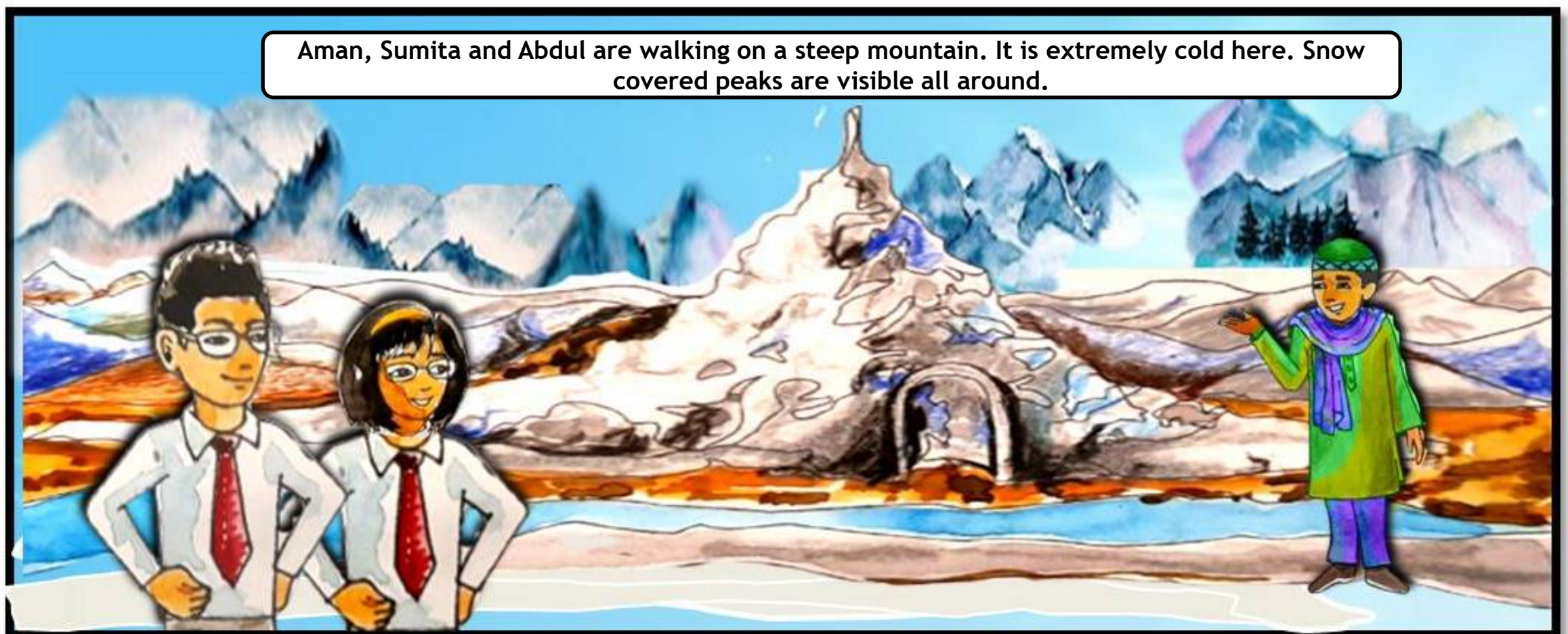
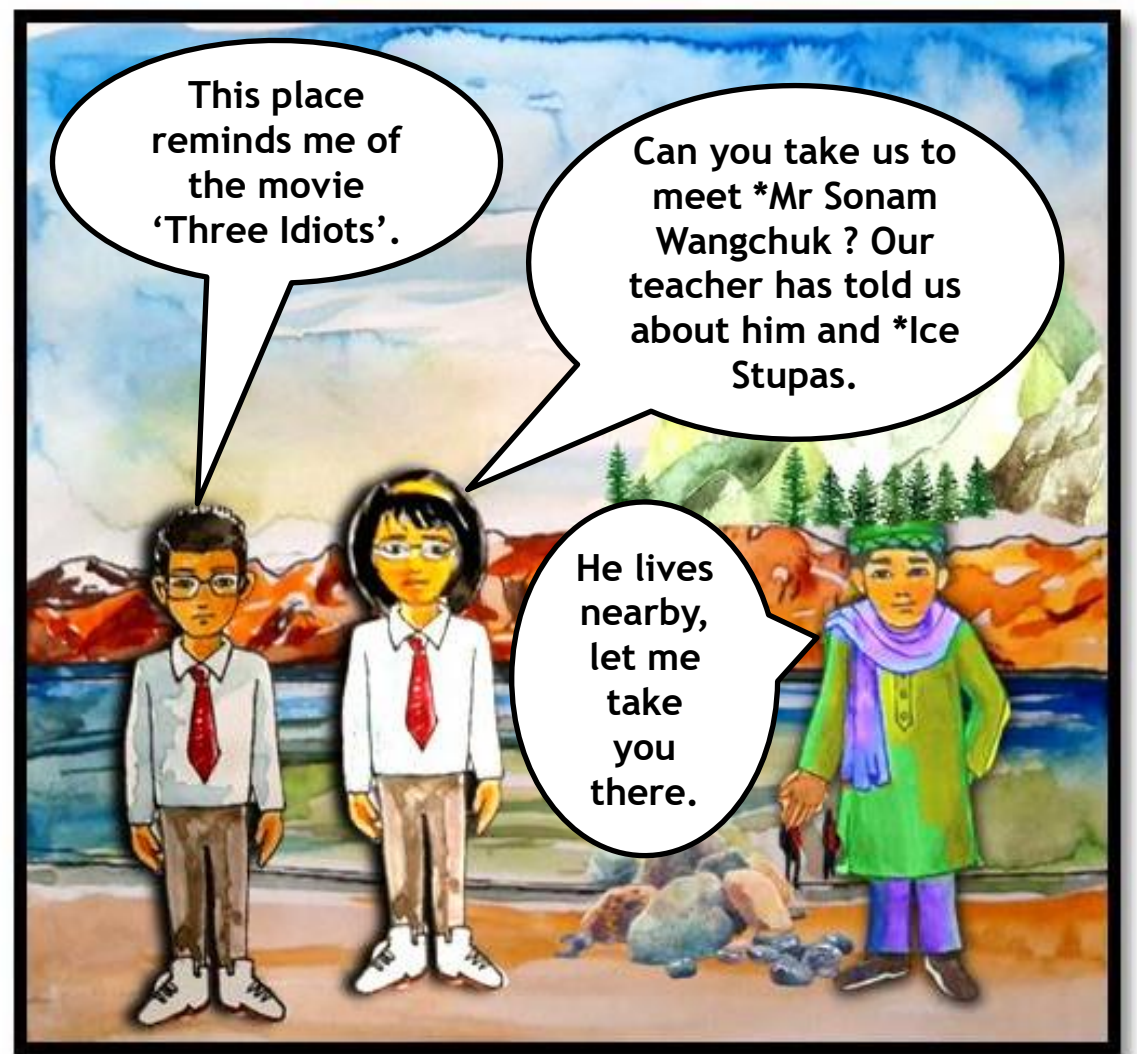
Hello ! Which place is this?

Hello! You are in the 'Country of Mountain Pass'.

Wow! LADAKH, that means the gadget works.

I know.... I know, mountain pass meaning 'La' and country means 'Dak'.

*RESEARCH WORK - On a map of India locate Ladakh.

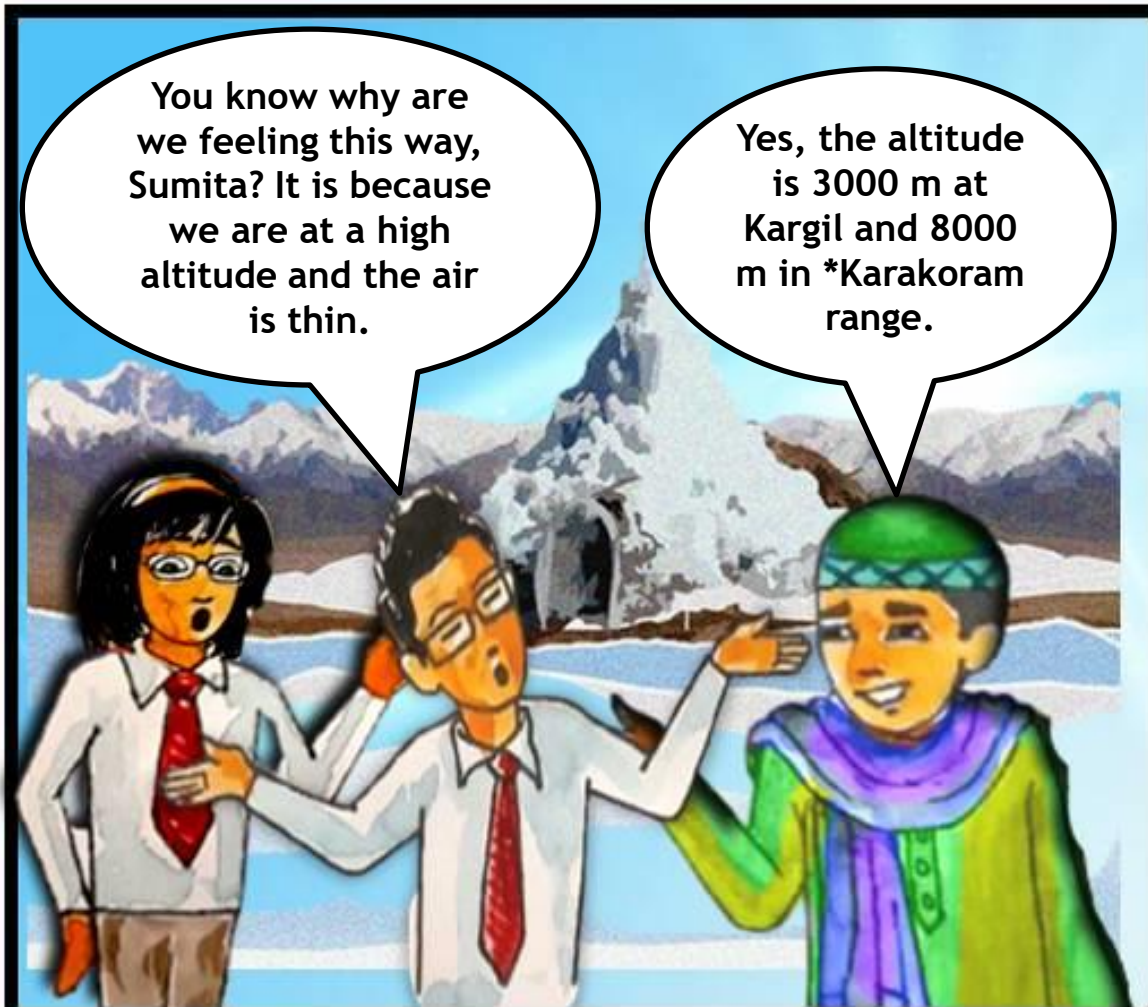


***RESEARCH WORK -**

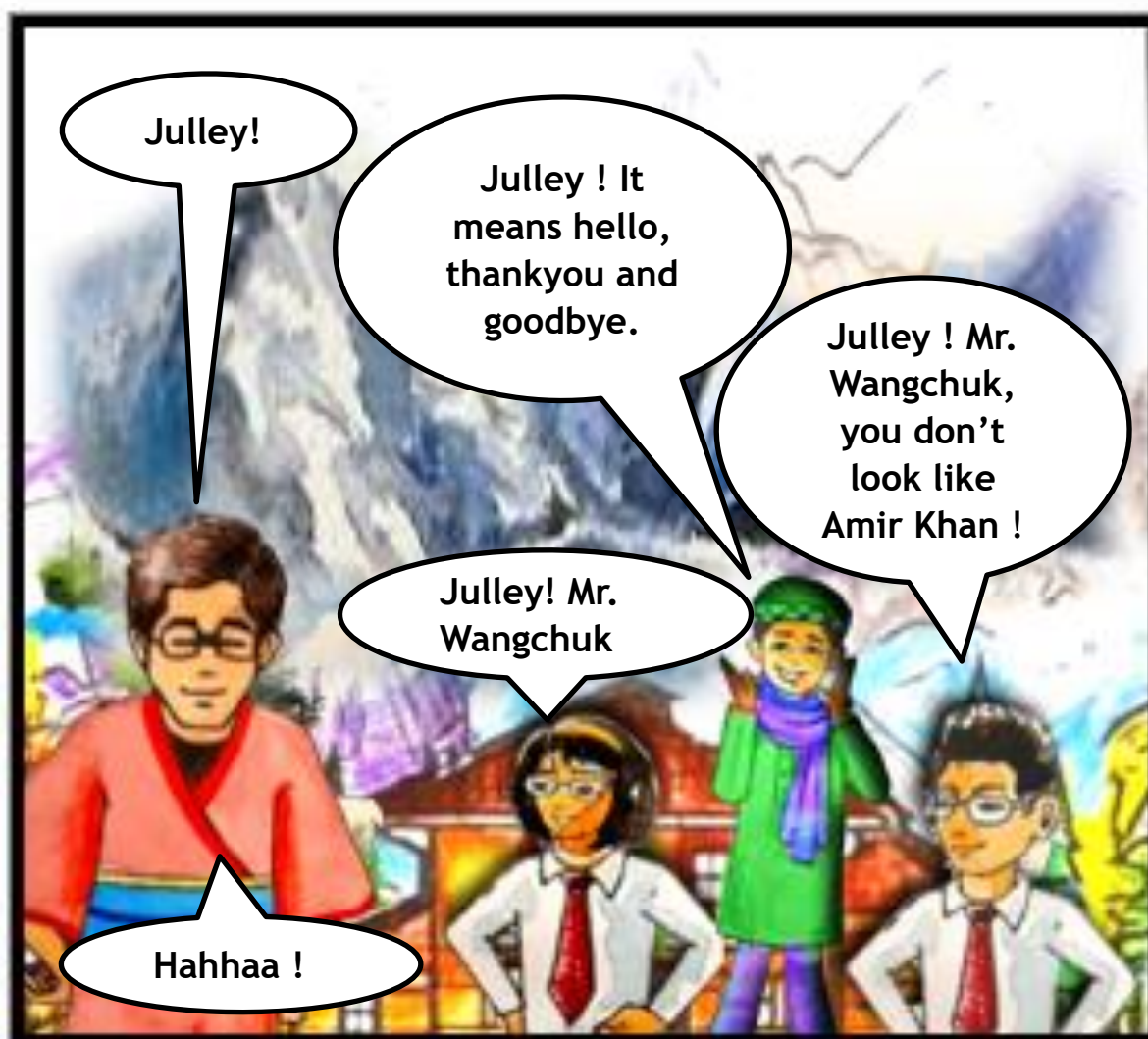
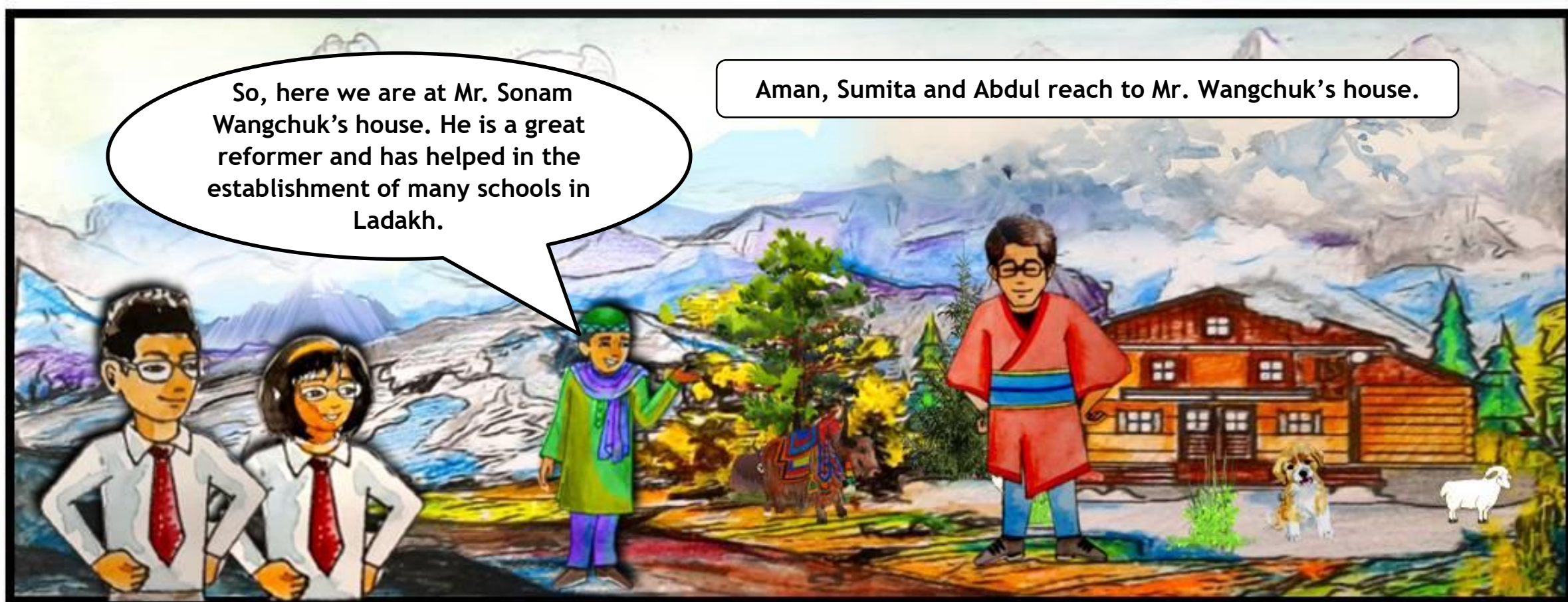
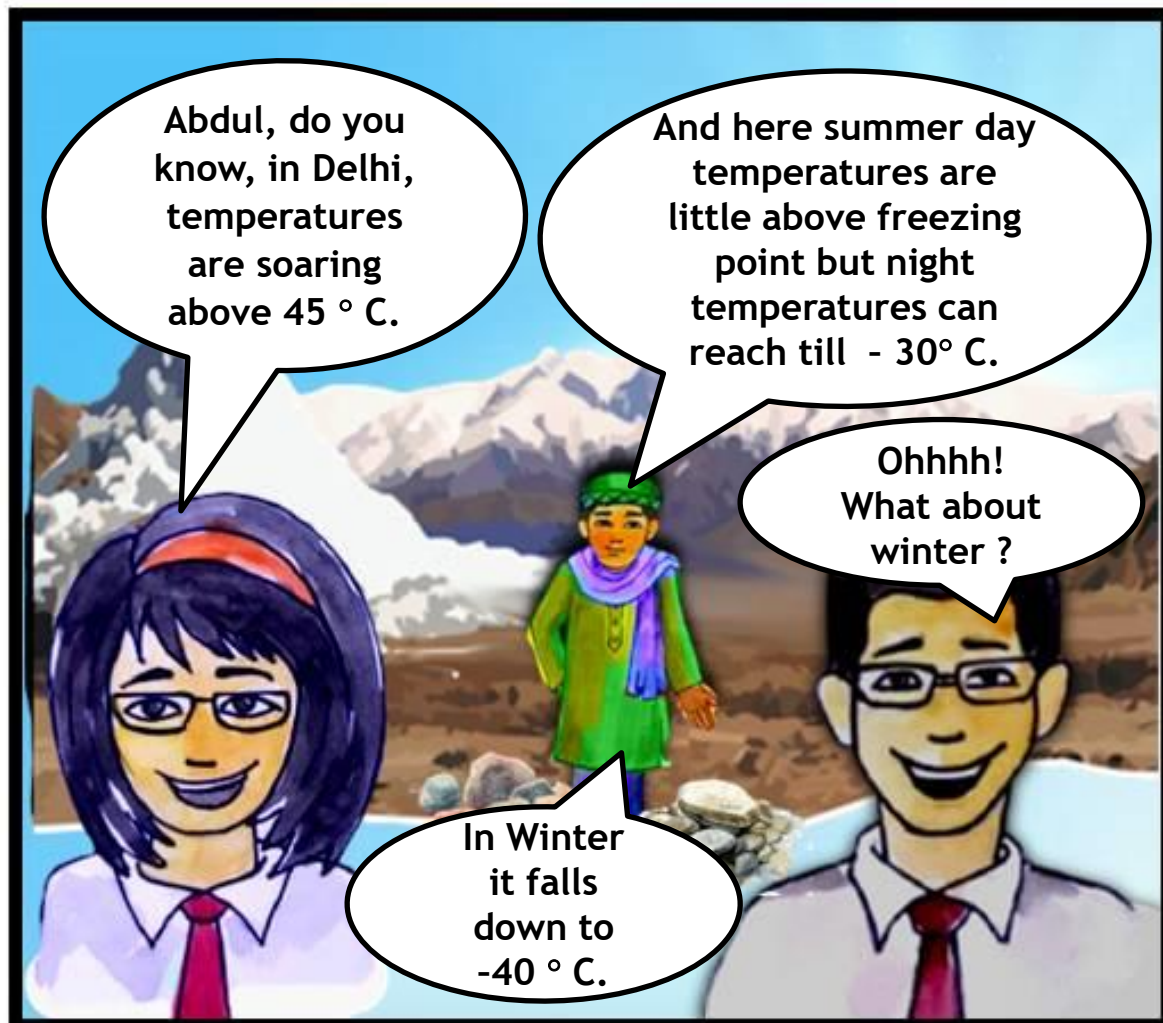
Research about Endangered animals, shahtoosh shawl and Pangong lake. Collect information about Mr Wangchuk's work in Ladakh and share it in class.

Students who have travelled to Ladakh can share pictures of Pangong Lake or Ladakh.

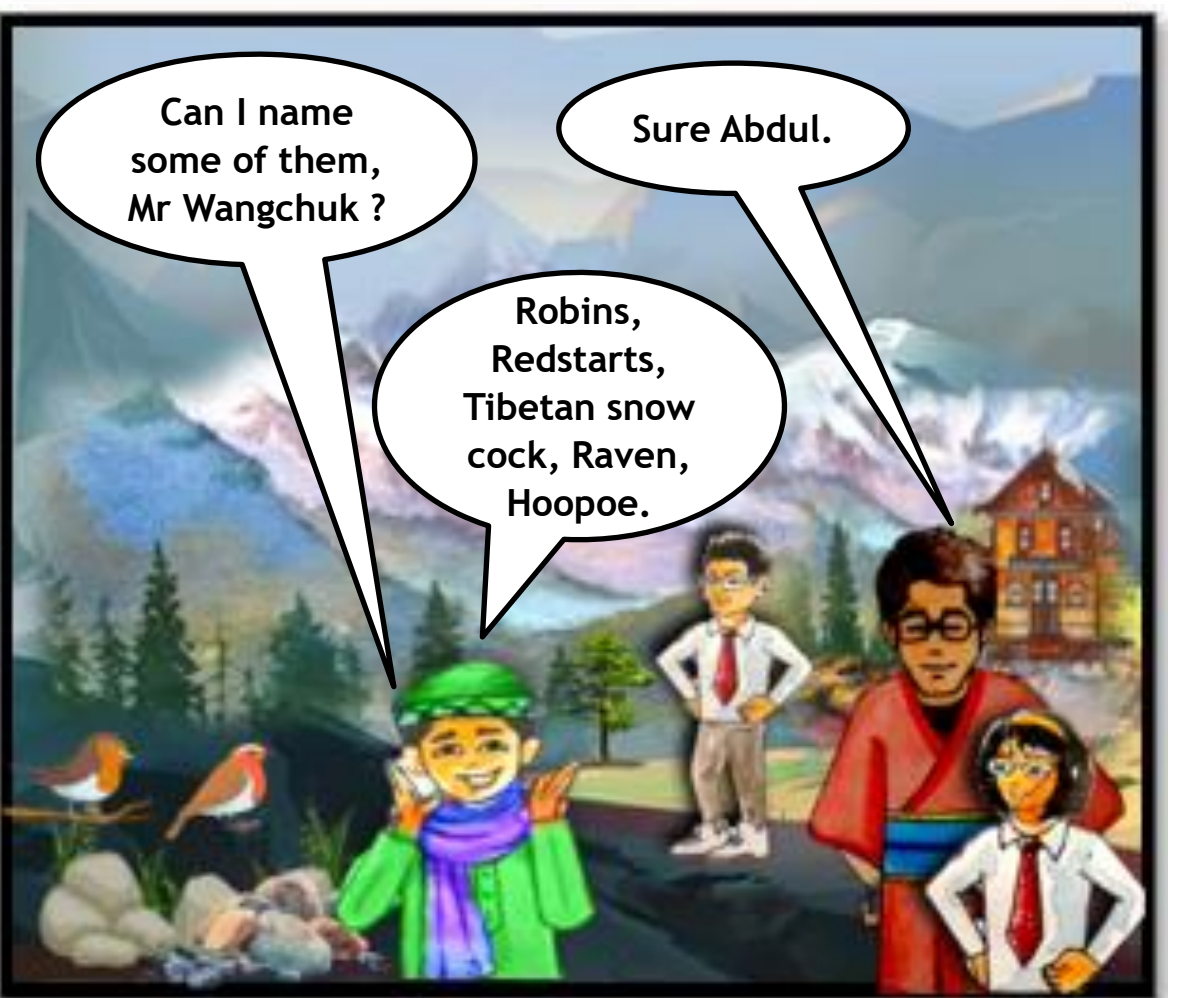
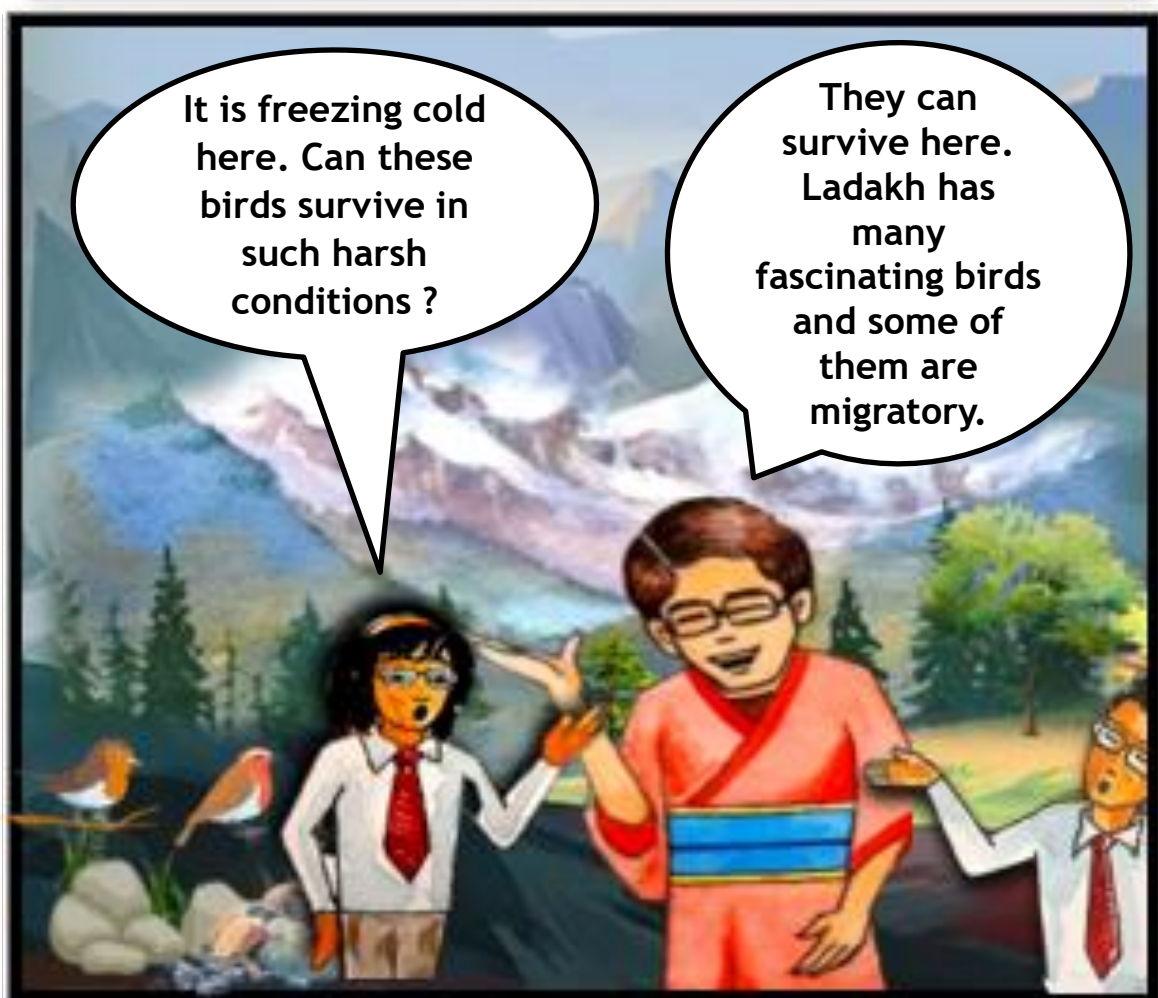
They are walking across the beautiful landscape of Ladakh. Aman and Sumita start feeling breathless.



MAP WORK - Locate and mark Ladakh, Karakoram range, Indus River on an outline map of India.
RESEARCH WORK - Read about Kargil War.
PAST KNOWLEDGE - What is Relief Rain ?



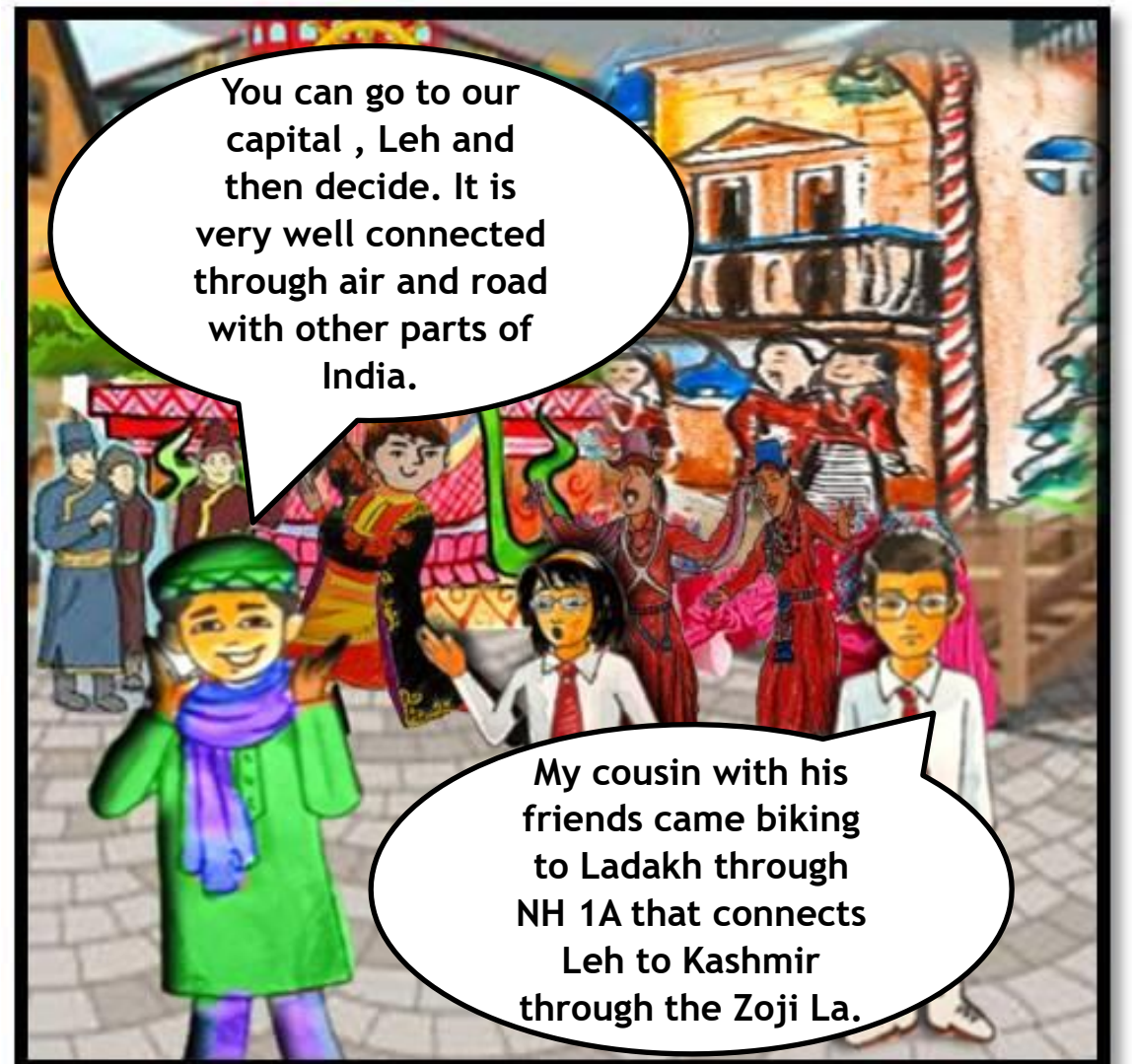
RESEARCH WORK - Read about animal adaptation techniques adopted by animals found in Ladakh. Which is the coldest place in Ladakh ?

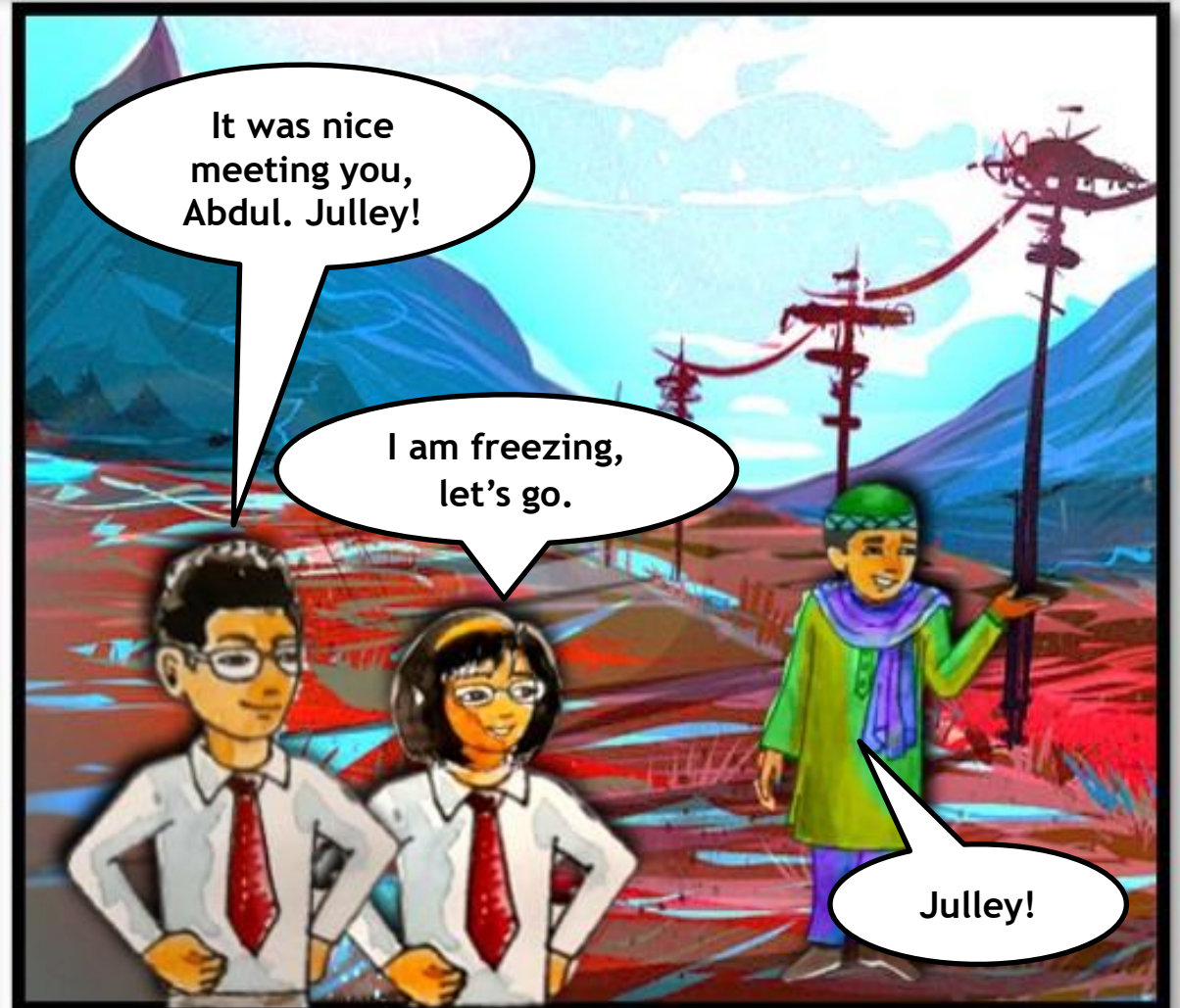
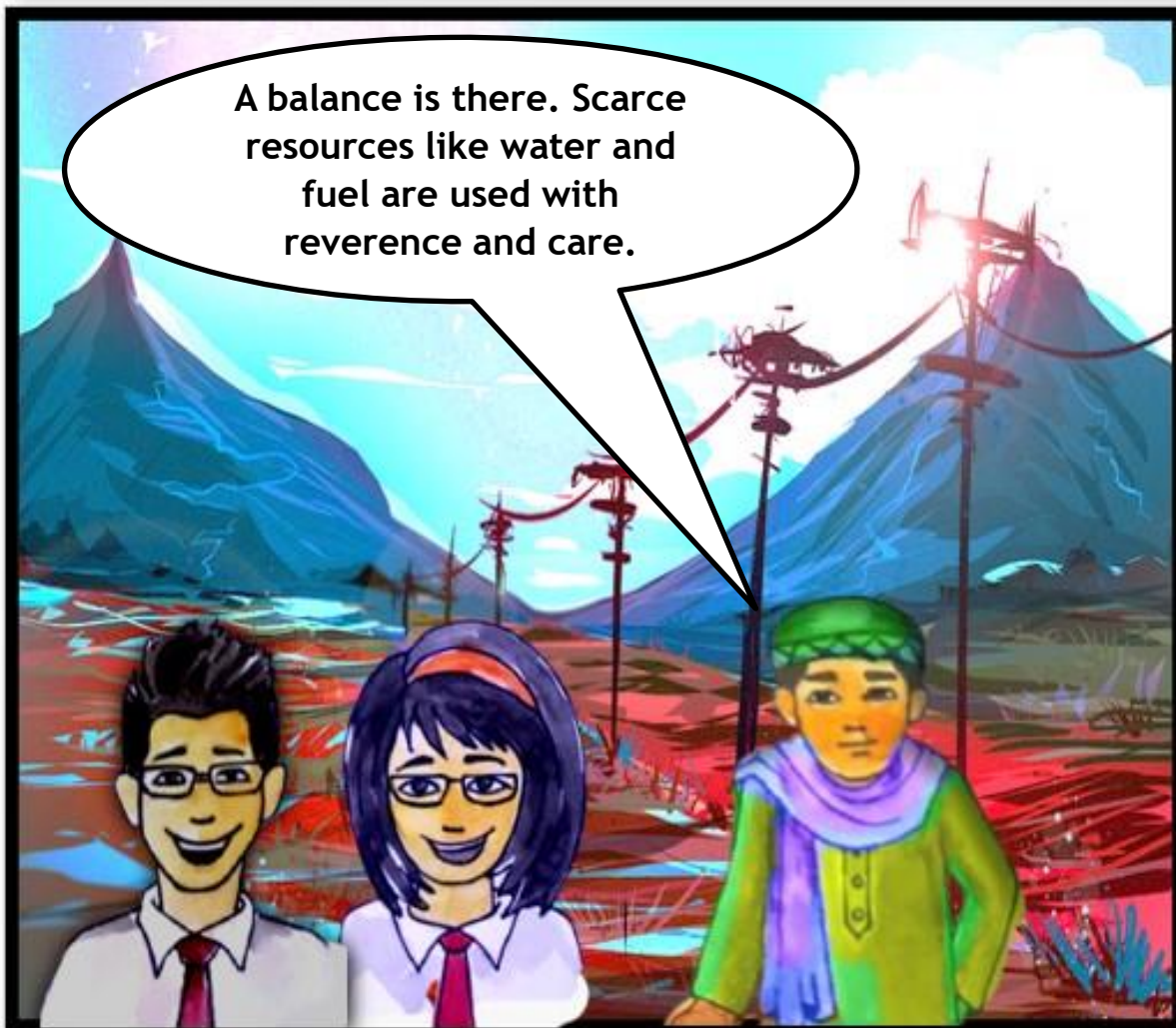
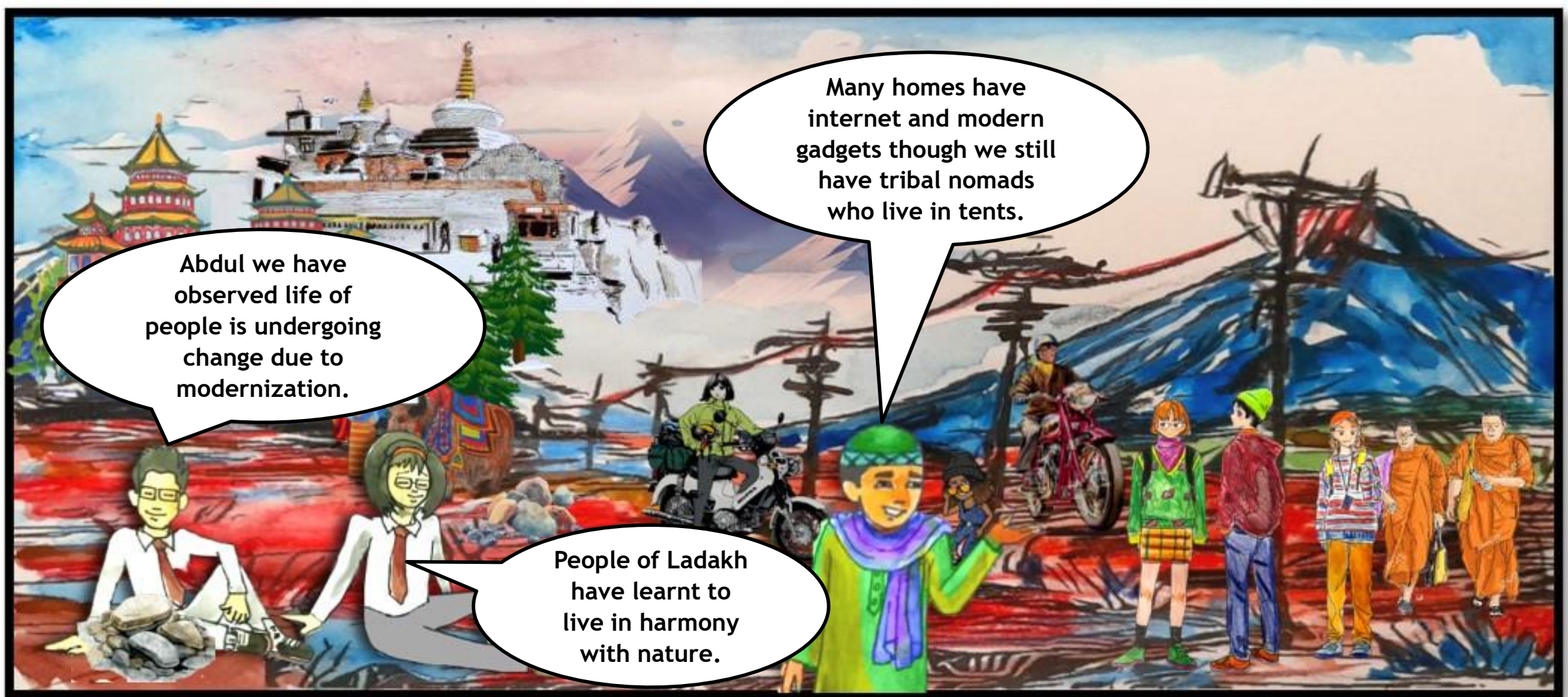




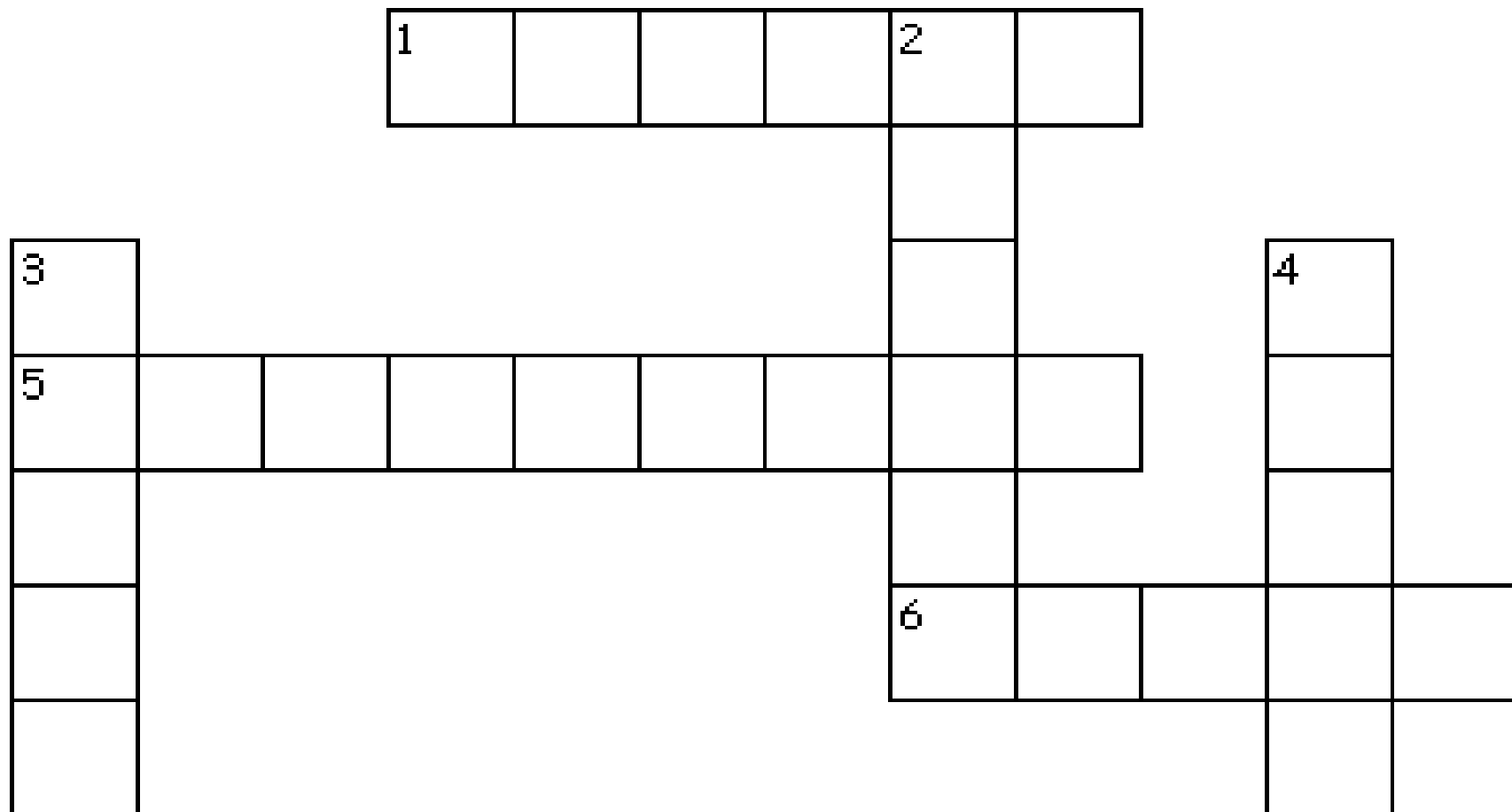
RESEARCH WORK - Which crops are grown in Ladakh ?







CROSSWORD



Across

1. The National Highway 1A connects Leh to Kashmir through the pass.

5. Ladakh lies in the rain shadow area of

6. A famous monastery in Ladakh.

Down

2. is made up of two words – 'La' meaning 'mountain pass' and 'Dak' meaning 'country'.

3. is an endangered species and it is hunted for its wool, which is light weight and extremely warm.

4. A bird found in Ladakh.

TEST YOUR UNDERSTANDING

1.The..... Range in the north and the mountains in the south encloses Ladakh.

- a. Karakoram, Zaskar**
- c. Himalayas, Purvanchal**

- b. Zaskar ,Karakoram**
- d. Zaskar, Himalayas.**

2.The climate of Ladakh is extremely

- a. Cold and dry**
- c. Cold and wet**

- b. Hot and wet**
- d. Hot and dry**

3. The vegetation of Ladakh includes (tick all the correct answers)

- a. cactus**
- b. scanty patches of grass**
- c. willows & poplars**
- d. fruit trees -apples, apricots & walnuts**

4. Ladakh is inhabited by (tick all the correct answers)

- a. Christians**
- c. Buddhists**

- b. Muslims**
- d. Jews**

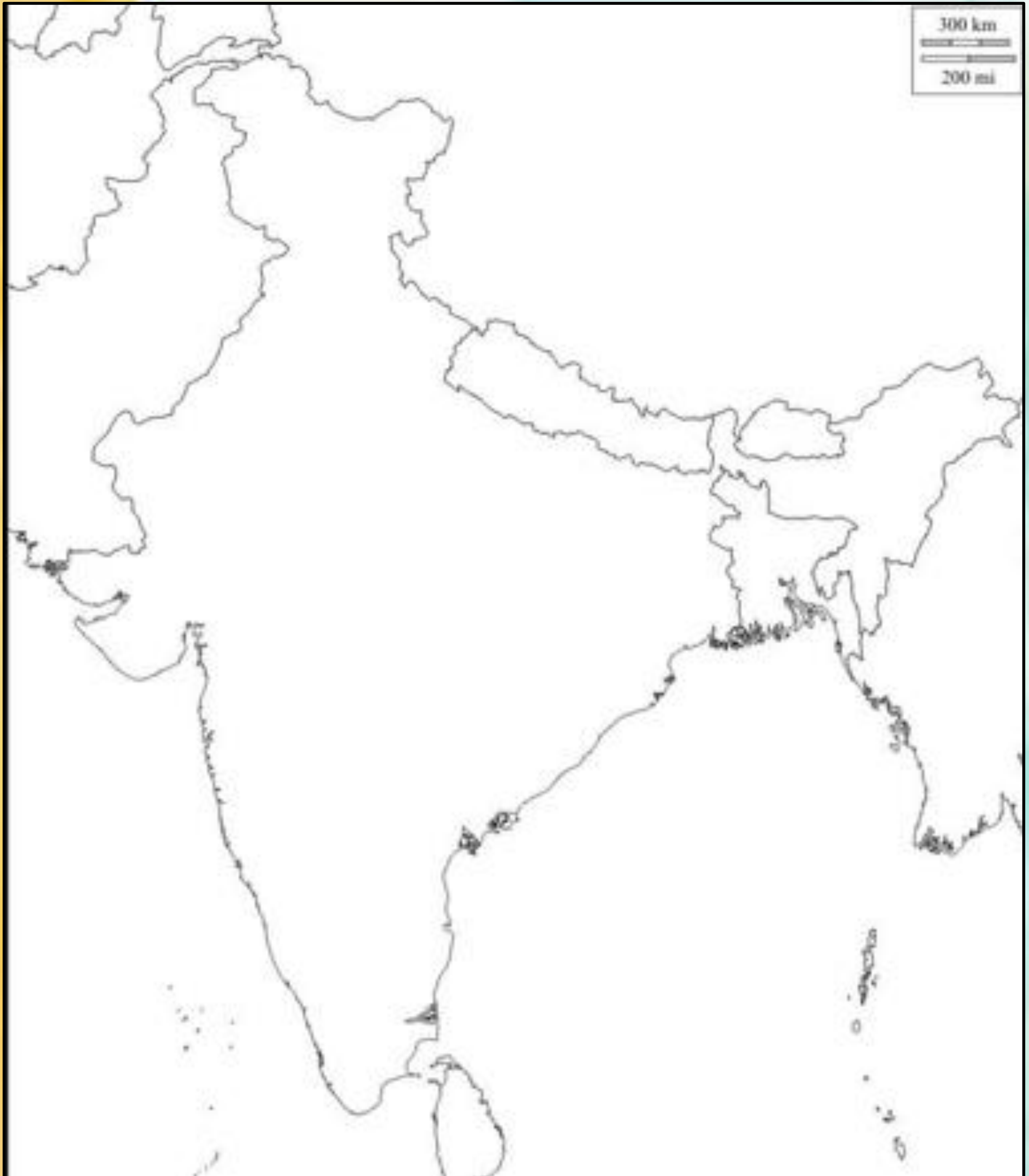
5. Deserts are characterized by (tick all the correct answers)

- a. scanty rainfall**
- c. very less vegetation**

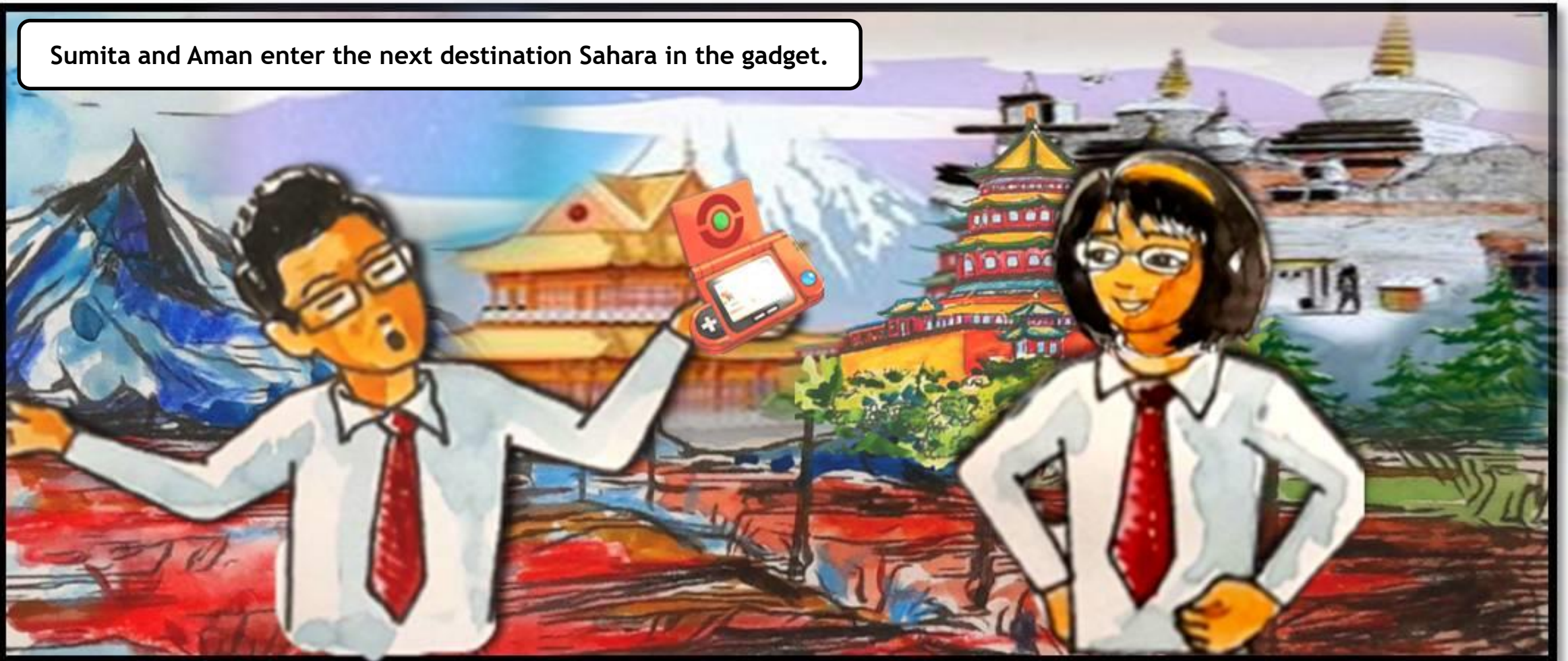
- b. heavy precipitation**
- d. low evaporation**

MAP SKILLS

On an outline map of India, mark Karakoram Range, Zaskar Range, Ladakh and Zoji La Pass



Sumita and Aman enter the next destination Sahara in the gadget.



Sumita and Aman find themselves standing on top of a sand dune. There are no big trees and it is extremely hot.

Are we in Sahara ?

Welcome to the largest desert of the world !

This is just amazing!



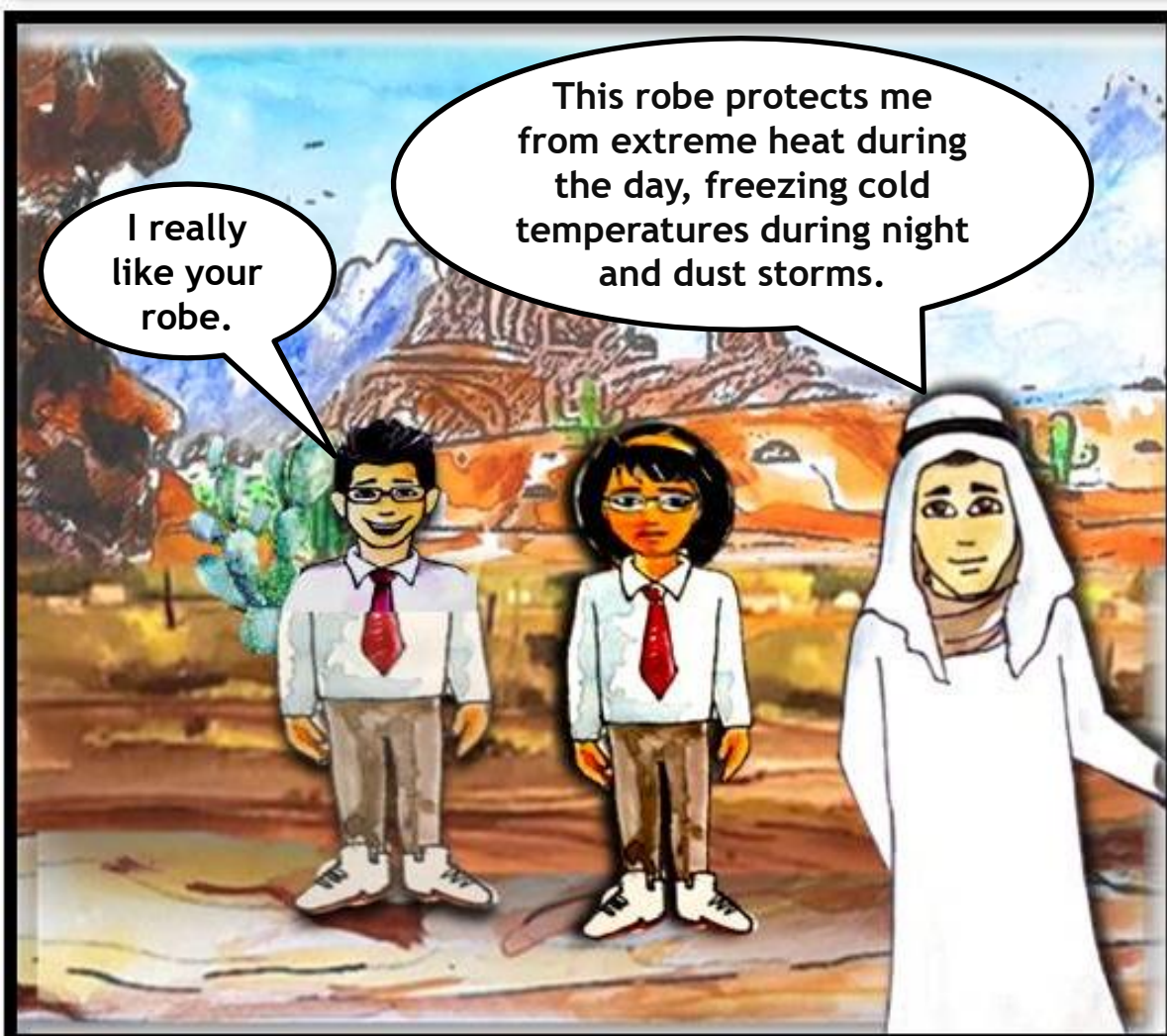
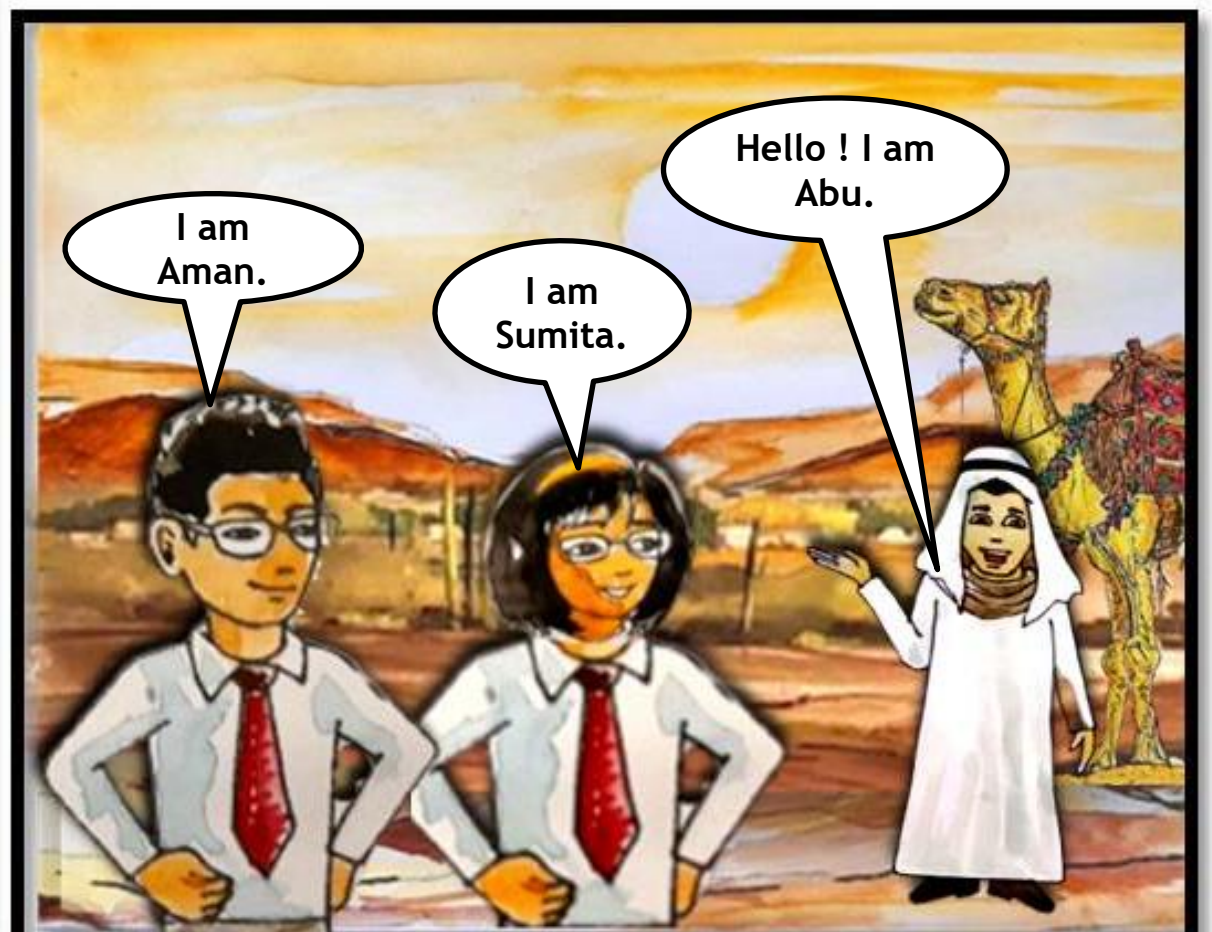
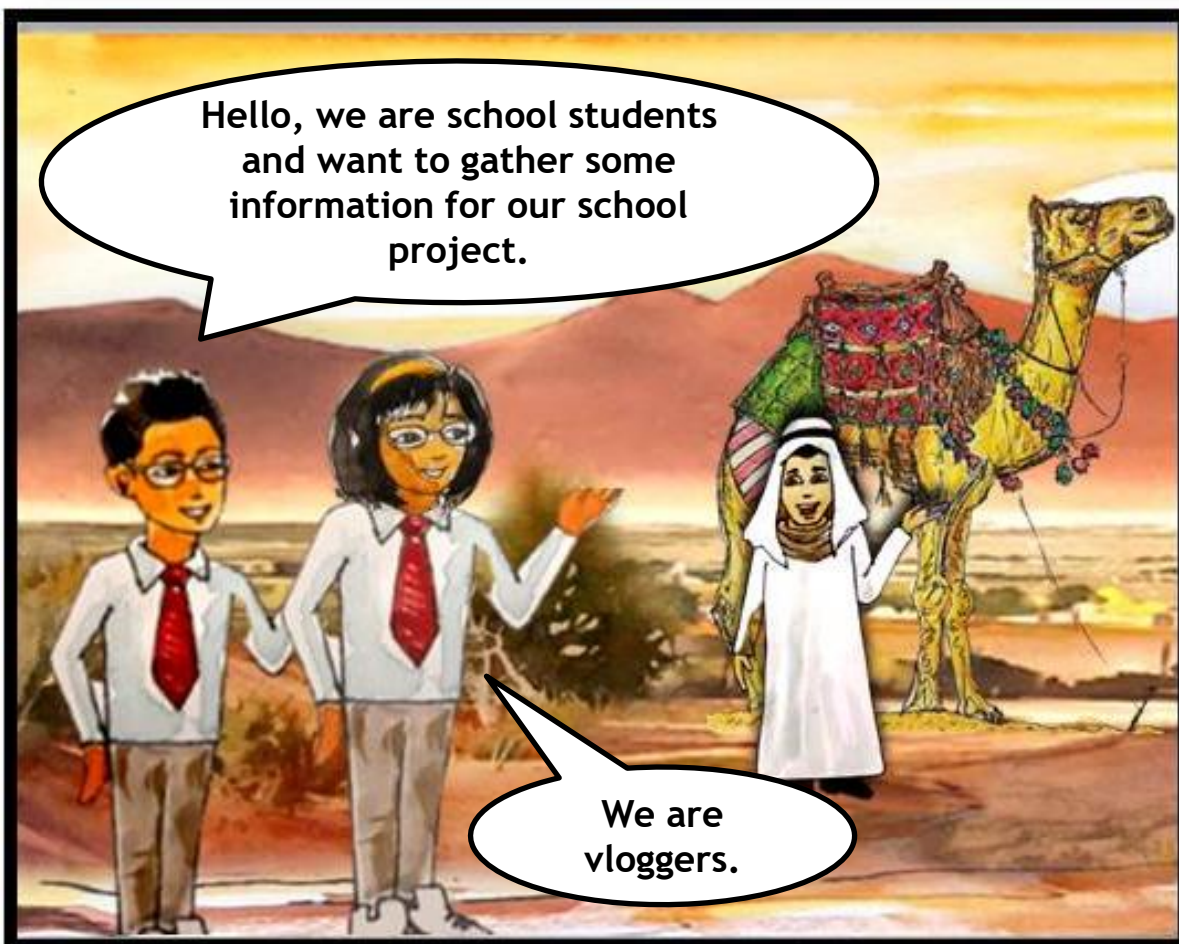
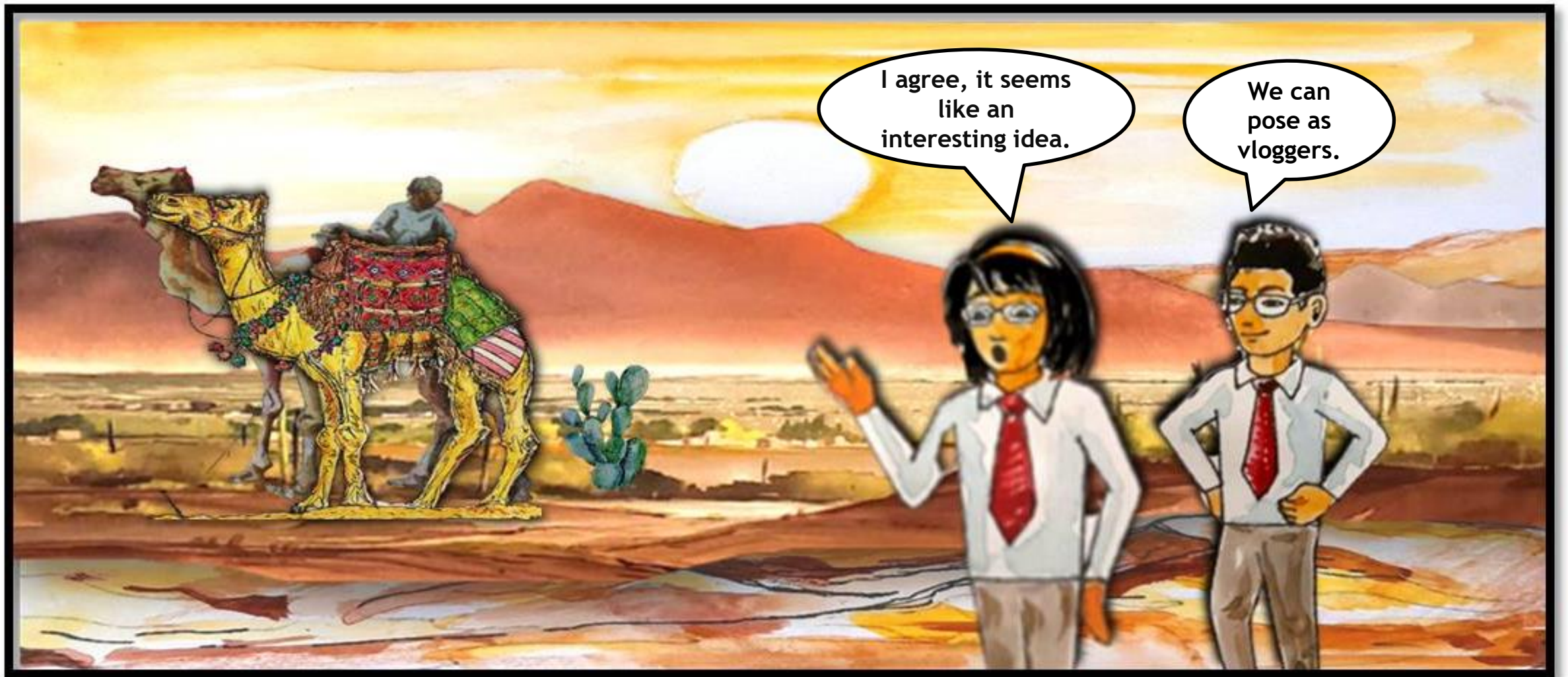
A man on a camel is seen at a distance.

Let' go and talk to that man in robe?

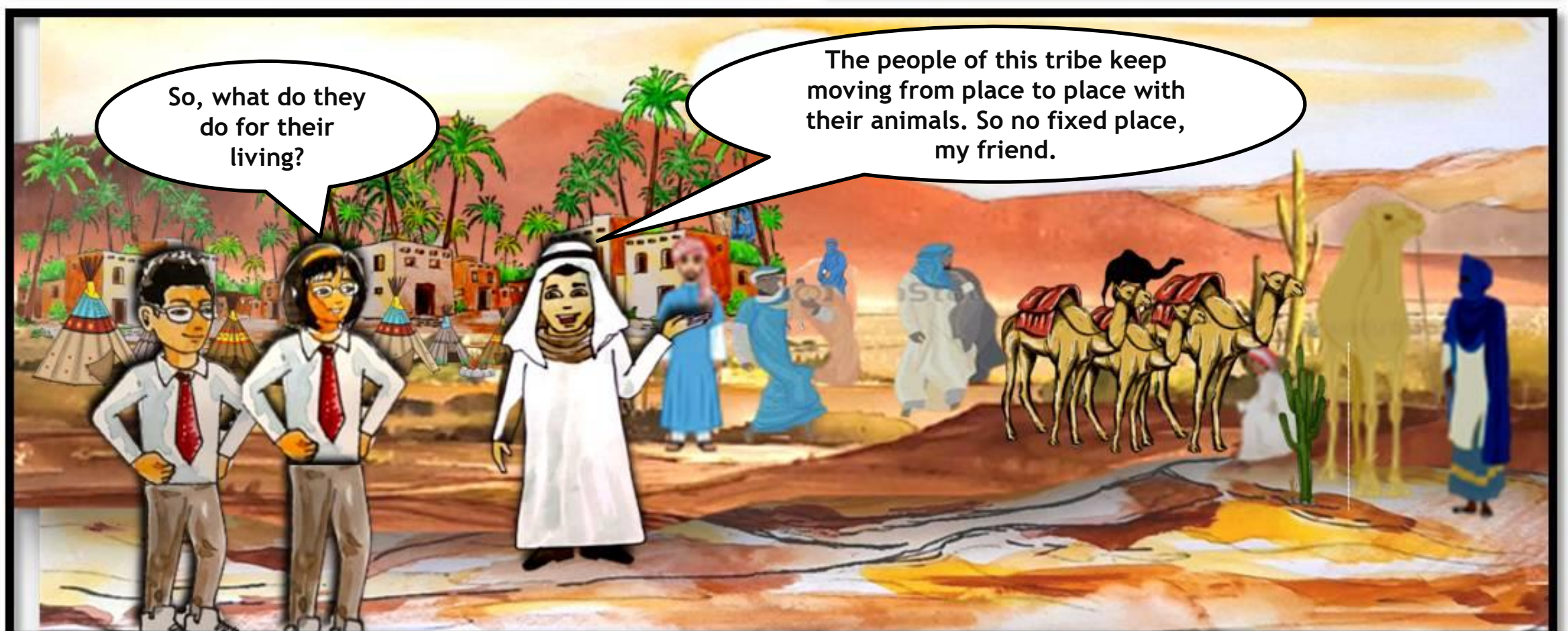
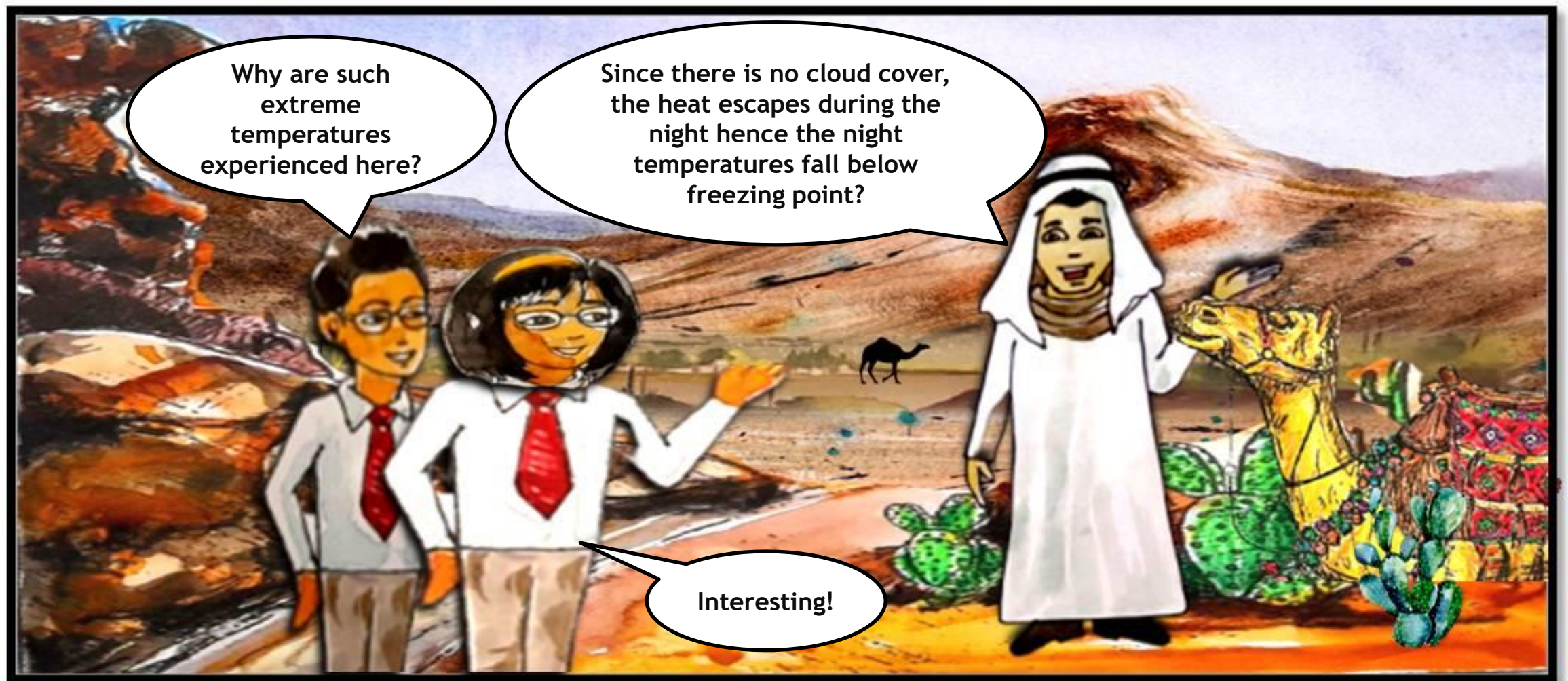
A good idea. Let's ask him about his life in this desert.

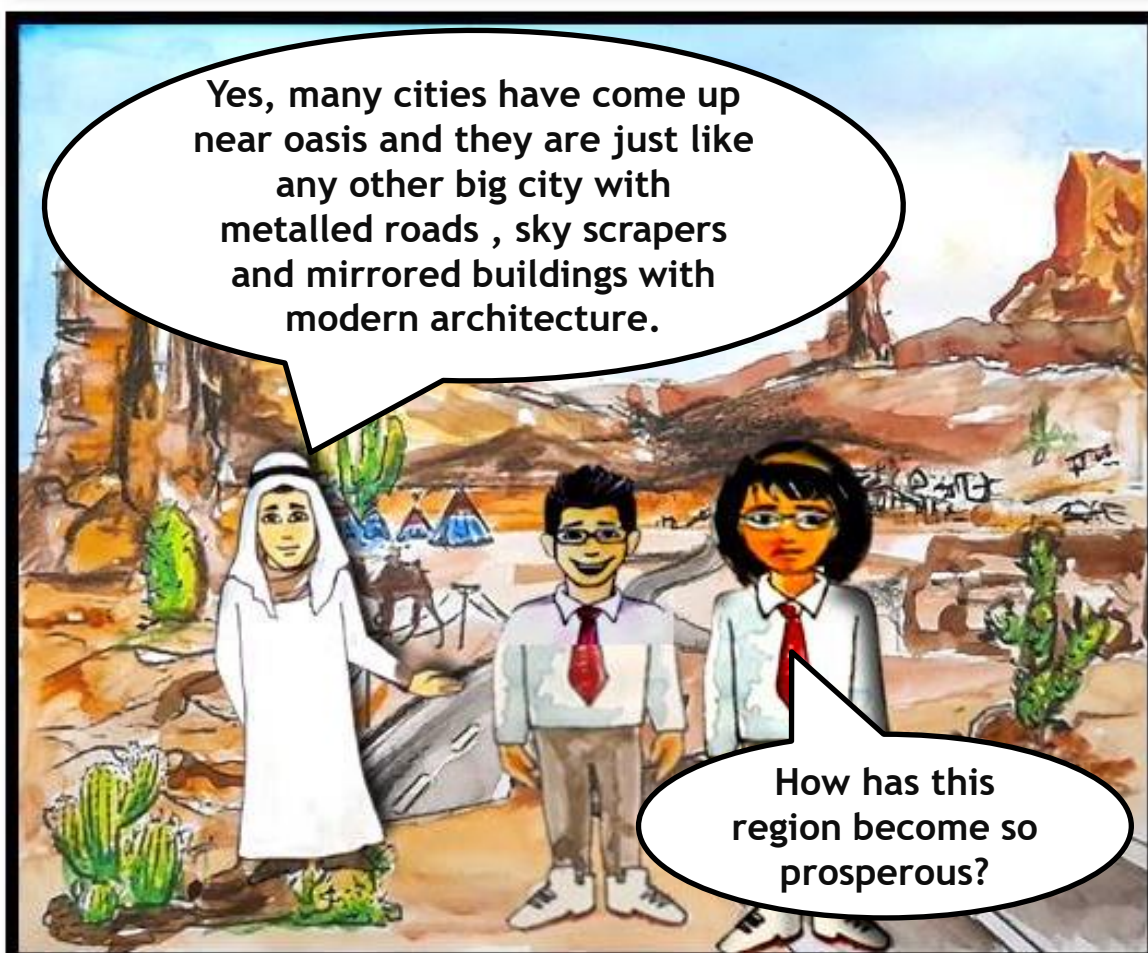


RESEARCH WORK - Locate and mark Sahara desert on a physical map of the World.
Find out about camels' adaptation techniques.

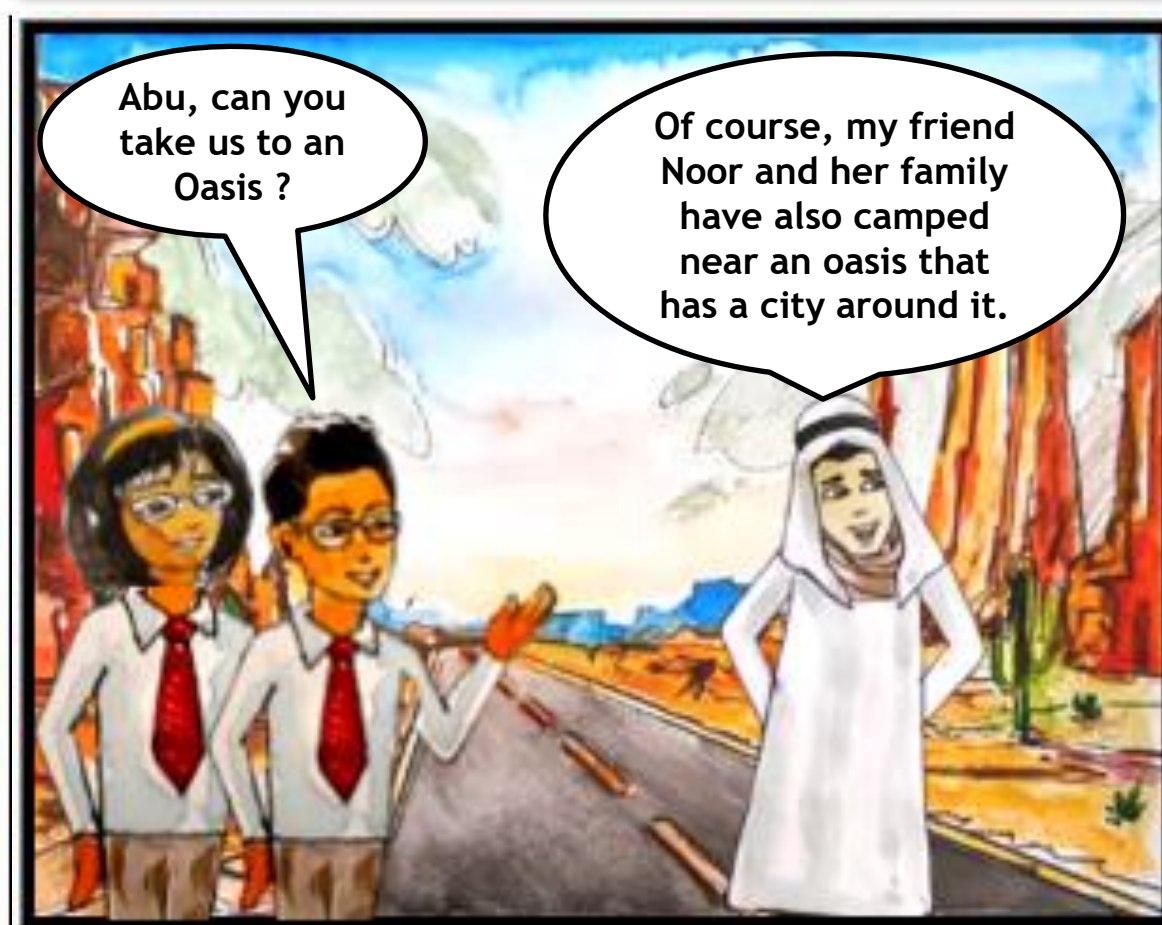
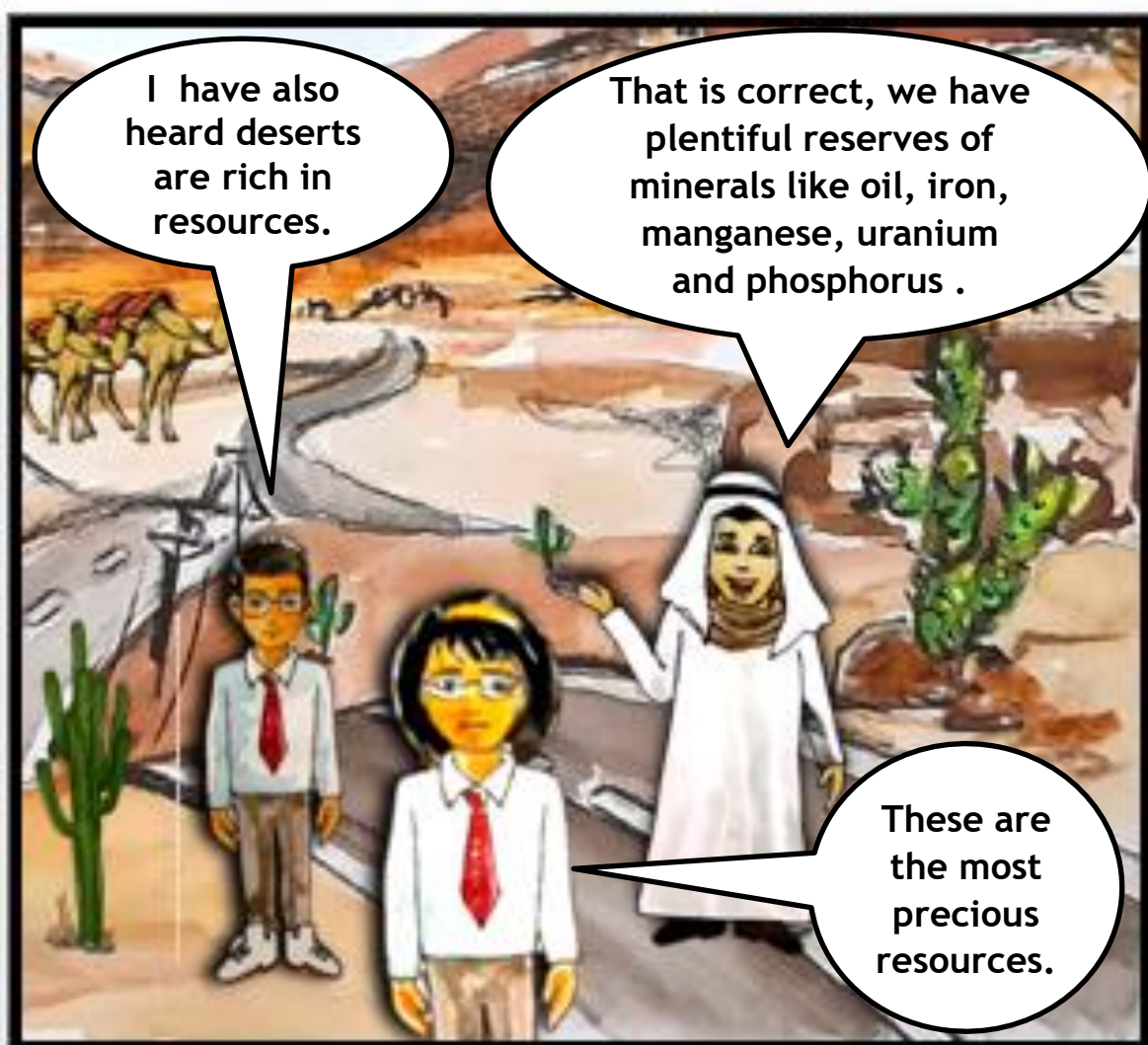


RESEARCH WORK - Who are vloggers ?





THINK AND TELL - Why have cities developed near oasis and Nile River Valley ?
Find names of some important cities that are there in Sahara Desert.











BRAIN TEASERS

MATCH THE FOLLOWING

Oasis	Cactus, date palms, acacia
Bedouins	Found in Algeria & Egypt
Oil	Tribe
Vegetation of hot desert	A depression, when the wind blows away the sand and filled with underground water

JUSTIFY THE STATEMENTS

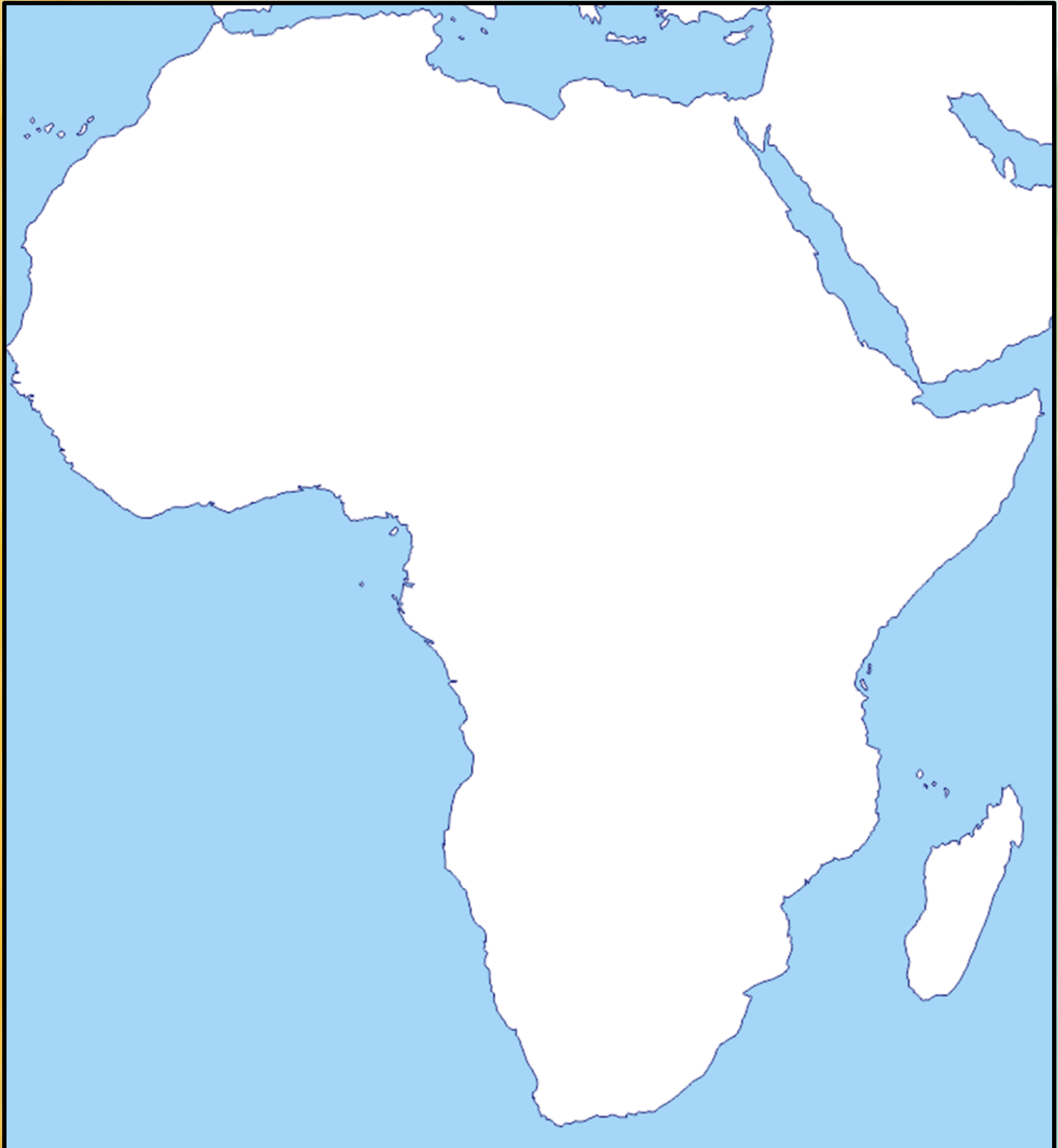
1. Deserts have scanty vegetation.
2. People of Sahara wear heavy robes.
3. Nomads settle near oasis.
4. Ladakh has emerged as a tourist destination in recent times.
5. Extreme temperatures are experienced in hot deserts.

CHALLENGE

Imagine you are stranded on a desert island. What sort of things you will need ? How would you survive ?
Create your survival kit by listing out five important items and describe what would you do there for survival.

MAP SKILLS

On an outline map of Africa, shade Sahara Desert.



GLOSSARY

OASIS

Depression formed when sand is blown away by wind and filled with underground water

DESERT

Arid region, characterized by extremely low or high temperature and has scarce vegetation

SAND DUNES

Mount or hill of sand

LA

Meaning pass (gap between two mountains) in Tibetan

RAIN SHADOW AREA

Region receiving low rainfall because of mountain acting as barrier

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WEB RESOURCES

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puzzlemaker.discoveryeducation.com



FROM THE PRINCIPAL'S DESK

Change is inevitable. The challenges faced by the entire world this year has led to innumerable opportunities specially in the area of learning. The entire education community teachers, students and parents have reinvented themselves for a new learning order. The power of technology has resonated across families, schools, countries and the world. From cloud computing, breakout rooms, creating apps, machine learning and the internet of things have all come together to advance educational practices.

Teachers across CBSE schools have connected on a common platform of a graphic novel/comic. A step towards meta cognition and meta learning. This creative process through art integration of all subjects will go a long way in creating interests in students.

My deep appreciation for Mr. Sandeep Sethi (Director Education, M.S.M.S.II, Museum Trust) who has worked tirelessly to bring the teaching community together.

Ms Anita Karwal (IAS) Secretary Education, Government of India is the shining light of education across the country. Her creativity, enthusiasm and love for innovation is unparalleled.

Mr Manoj Ahuja, IAS, Chairman, CBSE whose vision ignited this idea and inspired us to undertake this enriching experience.

My teachers of Springdales School, Pusa Road who are extremely innovative have taken this initiative to a higher level of aesthetics and engagement and brought out a remarkable and creative tool of learning.

**Dr. Ameeta Mulla Wattal
(Principal, Springdales School, Pusa Road)**

The most outrageous fantasy power of all: teleportation, the ability to arrive without traveling. Imagine being able to dematerialize from your school playground and show up the next moment in the cold Ladakh region or the hot desert of Sahara. How would you feel about a teleportation device and then going to the places of your imagination. Even the thought of this idea is so fascinating.

Sumita and Aman, while playing, find a strange object in their school playground behind the bushes. Reading the instruction 'ENTER DESTINATION' give wings to their imagination and they start visualizing their dream places. The story unfolds with these two school students' visit to the places of their interest and their gatherings of the lifestyle, culture, flora and fauna of those places.



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