A COMIC TEXTBOOK
EVs, MATHS AND ENGLISH
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Students of Primary Class love stories, fun and always want to explore. Normal textbooks, many a times, are difficult to read and understand without the help of a teacher or parent. Cartoons and Comics always create the interest amongst students. The main objective for developing Comic Textbooks for Class III, IV and V is to entertain and educate young minds by creating unique illustrated books in comic strips so as to help to them learn easier with fun, retain the characters and stories, arouse curiosity, encourage peer learning, and induce reading habits.

Utmost care has been taken to relate the stories to the cultures and tradition of the State. Efforts have also been made to cover the concepts and chapters of the entire textbook [Mathematics, Language (English), Environmental Studies] and also to cover all the Learning Outcomes for the specific classes and subjects. This is a part publication of the series.

The objectives would not have been fulfilled without the support and help of a large number of dedicated teachers of the Department, Resource Persons from SCERT, Manipur and Samagra Shiksha, Writers and Cartoonist, NE Brothers Entertainments Pvt. Ltd and NEST Advertising and Marketing Pvt. Ltd. The project would not have been brought to this stage without the support and guidance of Dr. Amarendra Behera, Professor and Head of ICT, NCERT and other Team members of NCERT, New Delhi. The project has also the support of Shri Th. Radheshyam Singh, Hon’ble Minister (Education), Manipur for conceptualization of the concepts.

I would appreciate every member of the Comic Team and other Officials of the Department for their support in this yearlong journey that has led to the development of the 3 Comic Textbooks. As the initiative is done for the first time, shortcomings could have been there. Suggestions from the readers for further improvement are welcome.

ImpHAL, the 11th April, 2020.

(Th. Kirankumar, IAS)
Director, Education (Schools) and
SPD (Samagra Shiksha)
Manipur.
ENVIRONMENTAL STUDIES
Malem’s elder sister is visiting her maternal home.

Malem, you are doing a good work.

Oh, sister, what a pleasant surprise! Where are my niece and nephew?

They also come along with your brother-in-law.

Aunty, where is grandmother?

Your grandmother may be making tea for your great-grandfather.

Oh! My handsome nephew and beautiful niece.

Lingjel, how nice to see you! Oh, look at my grandchildren.

Come and have a seat, everyone. Lan, Likha, oh how you have grown.

Is somebody getting married today, mother?

Oh, our neighbour Thoiba’s daughter is getting married.
Uncle Thoiba and aunty will be left alone now. Linthoi is their only child.

Life is like that. It is painful when someone in the family moves away when they get married.

Yes, that’s true. Or, when the son grows older and moves to a new place with his own family.

Grandma, did you cry when mother moved to my father’s house?

Oh, yes, I cried a lot! But the pain of separation vanished when my two little grand children were born!

HA! HA!

Tips
1. Our family is the first source from where we learn social values.
2. Your paternal and maternal grandparents, uncle, aunty and cousin love you equally.
3. Family members may or may not live together under the same roof, but we should never ignore them.
Rahim, can you tell me other outdoor games?

Yes, Sir! Hockey, Kabadi, Basketball, Volleyball and Cricket.

Very good!

Kamsom, now you tell me some games played indoors.

We play Badminton, Sepak Takraw, Table-tennis and Kang Shanaba in indoors.

Right! You must also remember that besides having fun, you must maintain discipline while playing games.

Sir, do we need to learn the rules of the games?

Yes, of course! You all must learn the rules. Obeying the rules helps to develop discipline.

Enjoying the game is also equally important.

Yes, Sir!

Tips
1. Remember, you must have sound health to enjoy games.
2. Maintaining discipline helps develop your personality.
3. Enjoy playing games to keep you fit and healthy.
EVS for Class IV
Story 2 Lesson 3 Fun at Play

Boys are playing football in school playground.

Hemanta, kick the ball this way!

Chaoba, take the ball!

Kamsom, be careful! They are kicking the ball this way.

Don’t worry, I am ready! Rahim, be on guard!

Watching the boys playing reminds me of my childhood days.

Yes, when we were young it was fun playing together like this.

So, boys! Did you enjoy the game?

Yes, Sir!

Boys are relaxing on the ground after play.

Boys, remember you must be physically fit to play football.

Yes, Sir!

You must eat good food to be healthy and strong.

Anybody can play this game but you can take part in other outdoor games also.
STORY - 3 - How they learn their skill

LEARNING OUTCOMES?
Describe different skill work people do such as tailoring, shoe making, farming, art and craft etc.

Miss Thoi with her students at the industrial site.

She told them many people take training in various skill works in the centre. All of us are related to their work directly or indirectly.

Miss, why is the woman cutting the large cloth into small pieces?

To make dresses of suitable sizes, large clothes are cut into smaller pieces and then stitched.

My mother told me a person who sews, makes and repair our clothes is called a tailor. Am I right Miss?

Right.

Uncle, why are you striking on the stone with chisel and hammer?

We made these stone items in this way.

Wow! Beautiful. Miss can we purchase these toys.

Of course. These skill workers run their families by selling these items.
Tips:

1. People are engaged in different trades so that we are provided with various services.
2. To be good in a trade, we need to learn how to develop our skill in the chosen trade.
Two friends Chunchun (crow) and Bambam (parrot) flying happily near a forest.

Bambam look over there... those deers moving in group? Today is your first outing... you will see many such things. Come lets fly high.

Why do they move in group?

to search food and water and to stay safe from enemies. Elephants, zebra, cows, buffaloes... also move in groups.

oh! I never knew that

suddenly they hear sounds of elephants....

What are those noisy sounds?... and why is that elephant standing... putting his trunk on the ground and carefully positioning his feet.

He is trying to identify the sound with his big fan-like ear. Dog also pricks up his ears and move them from front to back to identify sound.

I heard elephants have the biggest ear and moles have the smallest ear. Am I right?

Yes...yes. Birds too, have very small hole like ear but they are very powerful. A bird flying high in the sky can hear a fish jumping in the water.
the two friends resting on the branch of a big tree. Suddenly they saw a group of animals... Bear, dog, cat, camel cheering up with a glass of juice in their hands.

Hello friends, can we join the party?

Ummm... this party is meant for those animals whose bodies are covered with hairs.

If anyone can join the party then fish, crocodile, tortoise, lizard and snake whose bodies are covered with scales might have also join today's party. Is not it kitty?

HA! HA!

Oh! We could not join the party. Our bodies are covered with feathers. Sorry for disturbing you guys.

It is alright. You can be our guests. Everybody come and chill out... wow

then comes... crocodile, snake and tortoise and join the party... the dog offers some foods to the guests and all of them enjoy the party.
Different animals have different features. Even though we don’t look similar, we must respect one another.

Darkness in the sky ... as the sun goes down.

It is getting late. We have to leave. Bye friends. We have enjoyed the party a lot.

Bye friends ... see you again.

Bye friends ... see you again.
MATHS
**BRICKS AND TILES**

Thoiba and Tomba were friends from different schools and they met at a painting competition. Thoiba's painting was a beautiful pucca house near a brick farm in a village.

Your painting is very nice. Have you ever seen a brick farm?

Yes, there is a brick farm near our house. We frequently go there.

I have never been to a brick farm. I wonder how it is?

Why don't we go to the farm near our house?

Yes that will be fun.

Reaching the brick farm and observing all the activities.
It is very interesting, the muds are baked like a cake and dried and then heated to make a brick.

Look at this hands over a brick to Tomba...

It is thick and very heavy. Observing the brick, it also has 6 faces. Yes, and each face is rectangular in shape. It also has 8 corners.

When you look from the top, you can see only one rectangular face. You can see 3 faces at most when you look at from a certain angle.

Let's go and see our house. This rectangular faces on the opposite sides are also equal.

Reaching the gate of the house, Tomba and Thoiba walked along a tiled path.

Thoiba, your lawn path is very interesting and beautiful. Yes, they are made of many triangles arranged together to get a beautiful pattern.

It looks very beautiful. Wish we could make some beautiful patterns. Yes we can, let's go to my room.
THOIBA BROUGHT SOME COLOUR PAPERS. THEY CUT THEM UP IN TRIANGLES OF SAME SHAPE.

THOIBA AND TOMBA PATIENTLY GLUED THE TRIANGLES ON A CHART PAPER. LET'S ARRANGE THESE IN COLOURFUL PATTERNS. A RED, A YELLOW AND A GREEN ONE AFTER ANOTHER.

THIS IS SO BEAUTIFUL.

YES WE CAN MAKE MANY PATTERNS USING DIFFERENT SHAPES TOO.

LET'S TRY MAKING MORE PATTERN WITH DIFFERENT SHAPES.

ACITIVITY: MAKE A PATTERN USING STRIPS OF COLOURFUL PAPERS.
MY LITTLE CLOCK

HA HA..., THOSE CLOCK ARE NOT WRONG, THEY JUST FOLLOW DIFFERENT TIME SYSTEM THAT WHAT I DO.

MY LITTLE CLOCK, THE CLOCK AT THE BUS STAND SHOWS 14:00 HOURS. HOW CAN THE CLOCK AT THE STATION BE WRONG?

WHAT SYSTEM OF TIME DO YOU FOLLOW?

I FOLLOW 12-HOUR CLOCK SYSTEM AND THEY FOLLOW 24-HOUR SYSTEM.

WHAT IS THE DIFFERENCE BETWEEN THE TWO SYSTEM?

IN 12-HOUR SYSTEM, THE TIME AFTER MIDNIGHT AND BEFORE NOON ARE AM (ANTE MERIDIAN) MEANS BEFORE NOON, THE TIME AFTER NOON TILL MIDNIGHT ARE PM (POST MERIDIAN) MEANS AFTER NOON.

I HEARD THAT AM AND PM, BUT, I AM CONFUSED ABOUT THE TIME AT MIDNIGHT AND NOON.

MIDNIGHT IS 12 O' CLOCK AT NIGHT AND NOON IS 12 O' CLOCK IN DAY TIME.

LEIMA, WHEN DID YOU WAKE UP?

AT 6 O'CLOCK. NOW I CAN SAY 6 AM

EXACTLY WHEN DID YOU GO TO BED

AT 9 O'CLOCK AT NIGHT, CAN I SAY 9 AM?

NO, AS I TOLD YOU, THE TIME AFTER MIDNIGHT ARE PM, SO YOU CAN SAY 9 PM.
OH! 24 HOURS OF A DAY IS DIVIDED INTO TWO AS AM AND PM. EVERYDAY EACH DAY CHANGES FROM AM TO PM.

THINKING FOR A WHILE.

7:30 IN THE MORNING IS 7:30AM.

YES, YES.

VERY GOOD.

TELL ME ABOUT 24-HOUR CLOCK SYSTEM.

IN 24-HOUR CLOCK SYSTEM, THE TIME IS WRITTEN AS THE NUMBER OF HOURS THAT HAVE PASSED SINCE MIDNIGHT OR 12 AM.

YES, CAN YOU TELL ME THAT TIME IN 12-HOUR CLOCK SYSTEM?

THE CLOCK AT BUS STAND SHOWS, THE TIME 14:00 HOURS. IS IT THE NUMBER OF HOURS AFTER 12 O'CLOCK AT NIGHT?

THINKING FOR A WHILE

UM...MM...MM, I THINK IT IS 1 PM.

WROUNG. LOOK AT ME, THE NUMBER OF HOURS AFTER 12 AM TO 12 PM IS 12 HOURS, AFTER THIS 1 PM AND 2 PM, THE TOTAL HOURS IS 14:00. SO THE TIME IS 2 PM.

COUNTING HOURS

OH! 6 O'CLOCK IN THE EVENING OR 6 PM IS 18:00 HOURS.

EXACTLY. SUPPOSE THE TIME IS 4:30AM, HOW COULD IT BE IN HOURS?
THAT'S.... THE NUMBER OF HOURS TILL 4 AM IS 4 HOURS BUT 30 MINUTES, I AM CONFUSED.

 CONFUSED

IT IS 04:30 HOURS.

WOW! I UNDERSTAND NOW. THANK YOU MY LITTLE CLOCK.
**Fun From the Sky**

After a long and a joyous playing in the field.

Rama, Bona, Dipu and Thoi were sitting under a tree. They were all tired.

They saw some birds flying in the sky...

The birds are so lucky!!!

How?

They can fly high!

What if we can fly too?

If only we can ride a big big bird?

Wow! We are flying so high in the sky.

Yes, we can see the whole world from up here.
LOOK! OUR SCHOOL BUS LOOKS LIKE A TINY BOX.

YES, IT LOOKS LIKE A TOY.

LET’S FLY OVER IT.

AHA! IT LOOKS LIKE A PLAIN SHEET.

YES IT IS FLAT.

THERE IS A KITE ON THAT TREE.

FLYING ON TOP OF THE TREE.

NOW IT LOOKS LIKE A BUSH. I CAN’T SEE THE TRUNK.

LET’S GO AND GET IT.
They managed to take down the kite and they continued flying.

I think there is a mouse down there. Are you sure it is a mouse?

Yes, I am!

Let's check it out.

Flying closer to the ground they saw a cat running.

We were too high in the sky, so the cat on the ground looks very small and looked like a mouse.

Eh! It is a cat. It looks like a mouse from up there.

Let's go!!

Let fly to Loktak Lake and see it from the sky.
I GOT IT! OBJECTS LOOK DIFFERENT FROM DIFFERENT POINTS OF VIEWS.

YES IT IS, BUT IT WILL LOOK DIFFERENT FROM THE GROUND.

IT IS BEAUTIFUL!

DIPU, WAKE UP!!

THEY WERE ALL FLYING HIGH AND HAVING LOTS OF FUN.

AREN'T WE ALL FLYING ON A BIRD?

DIPU JUMPS UP IN SHOCK FROM THE DREAM

EVERYONE LAUGHS
HI! My name is Circle and don't I look round in shape?

I look just like the saucer in your kitchen.

Or like the wheels on your daddy's car.

Look at the dot at my body, it is called the centre of me.

The border along my body is equidistant everywhere from the center, and the distance is called radius.

Papa Circle has a larger body and so a larger radius. Mama and sister all have different radii.
CONFUSED?? YES, RADIUS IS THE PLURAL OF RADIUS. MANY RADIUS MAKES A RADIUS.

WHEN ANY TWO POINT ON MY BOUNDARIES JOIN TOGETHER BY A STRAIGHT LINE IT IS CALLED A CHORD.

AND WHEN ONE OF THESE CHORDS PASSES THROUGH MY CENTRE, IT IS CALLED THE DIAMETER AND IT IS THE LONGEST CHORD ON MY BODY.

MY DIAMETER IS ALSO MADE UP OF TWO RADIUS ALONG A STRAIGHT LINE.

DO YOU HAVE A BICYCLE? THE SPOKES ON THE WHEELS ARE SEVERAL DIAMETERS IN ONE CIRCLE. SO I HAVE MANY DIAMETERS ON MY BODY.
There are many things in this world that looks like me. Why don’t you identify them and try to find their centres. You can also compare their radii and find the bigger one.

BYE FOR NOW. I MUST GO FOR A WALK WITH MY DADDY OR SHOULD I SAY ROLL FOR A WALK WITH MY DADDY.

ACTIVITY: Try finding objects in your home that has the shape of a circle and compare them.
Story 1. The Rabbit

Bunny Bunny, Would you jump for me?

Oh my Bunny, I love you very much.

Ha! Ha! Ha! The way you wrinkle your nose very funny.

A young boy, Hemba walks in with another rabbit in hand

Hello Hemba, I am good.

Hello Tina! How are you?

Bunny, meet theba. He is your brother.

Hemba and I, took the two of you as our pet.
Bunny has grown up a lot.

Yes. Set your rabbit free. Let them play for a while.

Hemba, do you remember the poem our teacher taught us?

Which poem?

‘The Rabbit’ poem.

THE RABBIT
Mr. Rabbit has a habit
That is very cute to see.
He wrinkles up and crinkles up
His little nose at me.

\*
I like my little rabbit,
And I like his little brother,
And we have a lot of fun
Making faces at each other!

-Dixie Wilton

Yes, I remember. Shall we recite it?
Story 2. Mani’s Home-Coming

Hello Mani, when is your flight?

Tachou it is for 6 O’clock in the morning. I will be in Imphal by 2 p.m.

Ok. I will see you at the airport.

Next day, Mani’s mother is sitting at the veranda waiting for him.

Linthoi comes out holding a burning candle and paper in hand. Behind her walks their sister-in-law.

Linthoi, your brother will be home soon. Bring out the fire.

A car comes through the gate.

Ema, Tamo is here with Tachou.

Mani and Achonba walks in with luggage.

Wait my son, first walk across this fire.

This is to sanctify you.
Mani walks across and touches the feet of his mother.

I am so glad to see you son. How was your exam?

My exam was very good. I am also very happy to see you all.

At this Mani hands over a carry bag.

Tamo, did you buy the book I asked?

Yes, I have bought it. There is also a little gift for you and eteima.

Mani's uncle and aunty are seen walking in from the gate.

Look, Uncle and aunty have come.

Uncle Aunty please come in.

I heard from your mother that Mani is coming home. So we are here to see you.

Uncle, aunty, it is so good to see you are after a long time.
We are also very happy. Have you completed your exams?

Yes uncle, I completed it.

Very good. You should now help Achouba in looking after the family.

Yes uncle. I will now be able to help Tachou. I have also applied for a job.

Your brother has worked a lot for you all. After the death of your father, he has taken

Yes aunty, now it is my turn.

I am very proud of my two sons. They are very responsible.

Sister-in-law comes out with the tea.

Today is a very happy day. Let us enjoy with tea and sweets.
Story 3. The Most Precious Gift.

Have you bought everything?

Yes, but I will buy the fish tomorrow.

Yes Baba, we got fresh fish in the morning. I will go.

Ibemma is coming home for her first Ningol Chakouba after marriage. We have to make it special.

I can’t wait to see my sister.

Leima are you ready? Come and see these items.

Yes Ema, I am ready. These are enough.
Is Biren ready to drop you for Chakouba?

Eche, It’s nice to see you.

Leima, where is Biren?

He already left. He will come at 3 O’clock to pick

That’s good. Come, let us go in. Lunch is ready.

Eche, It’s nice to see you.
Eche Leima! Eche Leima!

David, we have not seen you for so long.

Since it is Ningol Chakouba, I have come to meet you.

We are happy to have you here. How is your mother?

Mother runs a shop now. She has stopped selling charcoal and drywood.

Whenever winter comes, we remember her. Buying charcoal from her very convenient.

Convey our regards to her.

Yes, I will.

Eche, Mother has sent a shawl for you. Please receive this.

But David, how did you manage to have the money?
We have an orange tree. I got the money after selling the oranges.

How sweet of you and your mother. I happily accept this precious gift.