

UNIT-1

The World of Colours

ACTIVITY - 1

The Quarrelling Colours – Part 1

Long, long ago, the colours in the rainbow started to quarrel. Each colour thought it was the most important colour of all.

Violet said “I am the colour of humility and wisdom. I am the most important.”

Indigo spoke softly, “I am the colour of silence. You need me for peace and prayer. I am the most important one.”

Blue interrupted, “I am the colour of water. Water makes up life. Without me you would be nothing.”

Green said, “I am the colour of nature. That is why I am the best.”

Yellow smiled, “I bring warmth to the world. The sun, the moon, and the stars are all yellow.”

Orange laughed, “I am the colour of courage! Surely, I am the best!

Red shouted, “I am the sign of strength and authority.”



ACTIVITY - 2

What colours have you seen in the story so far?

Which colour do you like best?

Make a list of things you have seen in your favourite colour.

Ask all your classmates about their favourite colours. What colours do your classmates like? Make a chart showing all the colours that classmates like best. Count how many classmates like each colour.

Favourite Colours of Classmates	Number of Classmates Who Like Each Colour





ACTIVITY - 3

Look carefully at your chart.

Was there any colour in the rainbow that no one in your class liked?
Which colour was that?

Which colour did the *most* people like and how many people liked that colour? The colour that most people like is the most *popular* colour.

Which colour did the *fewest* people like and how many people liked that colour? The colour that fewest people like is the least *popular* colour.

Is your favourite colour one of the *most* popular colours or a *less* popular colour?

ACTIVITY - 4

The Quarrelling Colours – Part 2 (Do you need to read Part 1 again?)

Suddenly there was thunder and lightning and it began to rain heavily.

The seven colours - violet, indigo, blue, green, yellow, orange, and red - all heard the angry voice of the Rain.

“You stupid, foolish colours, why are you fighting among yourselves? Don’t you know each of you is important?” The lightning stopped and the thunder quieted.

The Rain said, “Listen to me. Each of you has a special purpose. When I stop the storm, you must all hold hands and help each other. You will help each other stretch across the sky to make the rainbow. The rainbow is a special sign. It shows that if we all work together and help each other, even with our differences, we will all shine.”

The colours understood their mistake. The storm ended and the colours happily joined hands.

ACTIVITY - 5

Just as all the colours helped to make a rainbow, everyone can help to make school a better place to learn. Look at this picture with a partner or group. Name all the things you see in the picture. Think together about some ways the students in this school could help in the classroom.



Use the picture to help you write two sentences about things you can do to help in your school.

- 1) _____
- 2) _____

Share your sentences with your classmates. Listen to the ideas of other classmates.

Which three ideas from other classmates did you think were the most interesting?

1	_____
2	_____
3	_____





ACTIVITY - 6

In a group, talk together about all the ideas for helping that your classmates wrote in the activity above. Choose five ideas that everyone in your group agrees are interesting.

My group thinks these five ideas are interesting:

- 1.
- 2.
- 3.
- 4.
- 5.

Many ideas are interesting, but not all ideas are easily done. Work with your group to rank the five interesting ideas from easiest to most difficult. Ranking means to put in order. Rank the easiest idea first, the next easiest second.... The most difficult idea to do should be number five!

My group ranks these five interesting ideas by how easy they are to do like this:

1.	EASIEST
2.	
3.	
4.	
5.	MOST DIFFICULT

How could your group work together to actually **do** the easiest idea for helping?

ACTIVITY - 7

	Mix the colours as described in the poem.
<p>Paints <i>by Ilo Orleans</i></p> <p>When I put YELLOW Paint on RED, The colours change To ORANGE instead. And, mixing BLUE And RED, I get A pretty shade of VIOLET.</p> <p>Another trick That I have seen: YELLOW and BLUE Turn into GREEN.</p> <p>There's magic when My colours mix. It's fun to watch them doing tricks.</p>	

ACTIVITY - 8

It is very easy to name the colours in the poem, "Paints", but some other colours are not so easy to name! For example, the makers of *Crayola* crayons use many shades of brown.

Look at some of the names for their brown crayons:

Chocolate, Dirt, Beaver, Copper, Chestnut, Raw Umber, and Burnt Umber

All of these names are things that have the brown colour of the crayon.





A tree being cut down by beavers.

A beaver is a brown animal that lives near water and is known for building dams from trees that it cuts down with its teeth.

Umber is a kind of clay. How do you think Raw Umber and Burnt Umber might be different?

Some colour names are not things. How do you think Razzle Dazzle Rose, Purple Pizazz, and Screamin' Green were named?

ACTIVITY - 9

In this language task, you will create your own name for a new colour and you will talk to your classmates about their created names. Some students may name their colour with a thing and some students may name it some other way. Do the task to find out what happens.

Mix the colours below, then create your own names for them.

Colour #1 Mix Green & Blue	Colour #2 Mix Orange & Purple	Colour #3 Mix Red & Blue & Yellow
Name Your Colour	Name Your Colour	Name Your Colour

Talk to your classmates to find out what your classmates named their colours.

	Colour #1	Colour #2	Colour #3
My Names			
Some Interesting Names from My Classmates			

Of all the new mixed colours and new names in your classroom, which colour and name do you like best?

ACTIVITY - 10

Read the example sentences that use the idiom, “once in a blue moon”.

- I only eat sweets once in a blue moon. I really try to take care of myself.
- The only part of the work I didn’t like was, once in a blue moon, we’d have to stay all night doing paperwork.
- Once in a blue moon, you might get lucky, but the best way to get what you want is to work hard.

Think about the sentences. What do you think “once in a blue moon” means?

Read the example sentences that use the idiom, “show true colours”.

- When people are under stress, they show their true colours.
- He seemed very loving before the wedding, but afterwards, he began to show his true colours.
- Your willingness to show your true colours proves you have nothing to hide.





Think about the sentences. What do you think show true colours means?

Read the example sentences that use the idiom, “get the green light”.

- If you want to have a party, you’ll need to get the green light from both parents.
- We have the green light now, so we can go build the stadium.
- I’m happy to say we’ve got the green light to go ahead with the sale.

Think about the sentences. What do you think "get the green light" means?

Helpline

Going Beyond the Textbook

Use the internet or library resources to collect more information on colours. You may be interested in colour theory and mixing, or you may wish to find more poems or stories about colour or more interesting colour idioms. You may visit the textbook website, www.onlinetextbook.info, for more topics and activities related to colour. You can even post about what you've learned there. There is always more to discover in the world of colour!

For the favorite colour chart, demonstrate by asking a child for a favorite colour, tell the students they will write the colour the **FIRST** time a classmate says it, but the **SECOND** time they hear the colour, they will add to the count to show that **TWO** students like the same colour. Every time a student hears a new colour from classmates, the student adds that colour to the list. Every time he hears a colour that other students like as well, he adds to the count.

Ranking activities, such as the one where students decide which ideas for helping are easiest, are excellent ways to encourage discussion. Ranking requires more language and negotiation for groups to agree on the relative ranks of items than to simply answer yes or no or true or false. The first time students do a ranking activity, the teacher may need to help them see how an unranked list is different from a ranked one.

UNIT-2

Amazing Animals

ACTIVITY - 1

This unit is about some of the amazing animals that share our world.



What animal shape do you see?

What words do you find in the shape?

ACTIVITY - 2

Battle in the Jungle -Part 1

Once upon a time, all the animals that walked on land and all the birds and insects that flew in the sky began to quarrel about who was the smartest and strongest. At first, they spoke softly. Then, slowly, they became angrier and louder. The tigers growled and the wolves howled. The birds gave loud cries and cackles. The insects buzzed as loudly as they could.

At last, an old parrot said, “Stop shouting. Let's not waste our time and energy in talk. Let's fight.”

The animals laughed at the bird's idea.

“What!” said the lion, “Can you fight us? Don't be foolish. I can bite harder than any one of you.”

The elephant said, “I can lift a whole tree and fight you all at once. We





will easily defeat you.”

“Will you?” said the parrot. “We’ll see about that. Get ready to fight us.”

The lion became the commander of the animals. The parrot became the commander of the birds.

The lion called all the animals together and gave them a drill for practice. They marched for long hours. He gave them a lot of good food, too.

The poor birds did not have good food and they did not practice. Instead, they had a meeting with their friends, the insects.

New Words

- Quarrel : angry disagreement
Mane : long hair from the necks of certain animals
Battle : fight
Sting : to hurt with a sudden sharp pain
Roar : to utter a loud, deep, rumbling sound
Spy : to watch closely and secretly

Did you find more new words? Write them to help you remember them.

ACTIVITY - 3

Three characters have spoken in the story so far. Who are they?

Look carefully at the story. How do you know who is speaking? How does the punctuation in the story show you that the characters are speaking? Notice and copy one of the quotations, with its punctuation, from one of the characters.

The story says,

“All the animals that walked on land and all the birds and insects that flew in the sky began to quarrel.... At first, they spoke softly. Then, slowly, they became angrier and louder.”

You know what three characters said, but what did the other animals say? For example, the story says,

“The tigers growled and the wolves howled. The birds gave loud cries and cackles. The insects buzzed as loudly as they could.”

What do you think the tigers and wolves were saying with their growling and howling? Work with a partner, in a group, or as a class. Imagine and create a new dialogue between two or three other characters. Use punctuation that you have noticed from the story to show who is speaking.



If you worked as a pair or group, share your dialogue with your classmates.





ACTIVITY - 4

Battle in the Jungle - Part 2

(Do you need to read Part 1 again?)



At the meeting, the parrot called on their friend, the fly, “You become the spy for our army. Tell us the animals' plan.”

“Yes,” said the fly, “I'll become the spy for our army.” Before the battle, the lion called all the animals together. The tiny fly flew in and hid nearby.

“Are you all ready?” the lion asked.

“Yes, we are ready,” they all shouted. “We are ready to go to the battlefield.”

“Then listen carefully,” said the lion.

The lion whispered, “I have a plan. Captain Fox, you have a nice long tail. You will be my signal. On the battlefield, I shall whisper in your ear when it is time to fight. You will put up your long tail to signal all the animals to attack the birds. Is that clear?”

“Very clear, sir,” said the fox.

“Very well,” said all the animals in one voice.

The fly hurried to tell the parrot the lion's secret plan.

The time for the battle came. Both sides met on the battlefield. Soon the lion whispered to the fox, “It is time. Put up your tail.” The fox put up his tail to signal the animals to attack.

But the parrot was ready. He quickly and quietly said to the bee, “Hurry at once and sting the fox's tail!”

The bee stung the fox. He stung him once. He stung him twice. He stung him three times.

The fox forgot all about the signal. He jumped. He shouted. He ran in circles after his injured tail and, finally, tucked his tail between his legs and ran away. The other animals were confused and ran after him. They ran away from the battlefield. They lost the battle.

The birds fluttered their wings in joy. They had won without fighting at all.

ACTIVITY - 5

The animals quarrelled about who was the smartest and the strongest. They had different opinions and your classmates will, too.

Who do **you** think was the smartest? The lion who prepared his army well? Or the parrot who tricked the animals?

Who do **you** think is the strongest? The elephant who can lift a tree? Or the bee who can win a battle with a sting?

Discuss these questions in pairs or groups to find out your classmates' ideas.

Who thinks the lion is the smartest?	Who thinks the parrot is the smartest?
Who thinks the elephant is the strongest?	Who thinks the bee is the strongest?

If a small bee can be stronger than a large elephant, then what does the word “strong” really mean? For example, if the elephant is strong, but the bee is stronger, what can a “stronger” person do that a “strong” person cannot? Discuss these ideas with your classmates. After discussing, decide together what it really means to be "smart" or "strong".





Record your group's ideas here.

Our group thinks 'smart' means
Our group thinks 'strong' means

Find out what your other classmates said. Are there different opinions about what it means to be strong or smart?

Choose your favourite explanations and write them here.

Smart means
Strong means

ACTIVITY - 6



There are many amazing animals in the world, but many animals are in danger of extinction. When animals are extinct, they no longer exist on earth. Animals that are in danger of becoming extinct are called “endangered” animals. Some of

these endangered animals live in India. One is called the Indian purple frog, and it is very rare.

The purple frog lives in India’s Western Ghats. This unusual place has mountains, forests, savannahs, peat bogs, and freshwater wetlands.

Because the Western Ghats have so much variety, it is home to a large variety of plants and animals. One of these animals, the purple frog, was only recently discovered.

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Although local people knew about the frog, scientists only discovered it and realized it was a new species in 2003. The frog burrows underground and eats termites. It's called the purple frog, the Indian purple frog, or the pignose frog. Different names for the same animal can be confusing, so scientists give animals and plants scientific names. The scientific name for the purple frog is

Nasikabatrachussahyadrensis. It's a long name! But the name is useful for scientists, because all scientists know this one name is for this one kind of frog.

ACTIVITY - 7

Dinosaurs are *extinct*.

The purple frog is *endangered*.

How are these two words different?

Use the library, internet, or other people who know about animals to find more information on extinct and endangered animals. One good source is <http://www.arkive.org/>. Learn about at least one animal that is new to you so that you can share information about it with your classmates.

Name five animals that are extinct.	Name five animals that are endangered.

Compare your lists to your classmates' lists. "Compare" means to look carefully at their lists and yours to find out how the lists are the same or different. **Find an animal on a classmate's list that is not on your list. Ask your classmate to tell you about that animal.**

I learned about the _____ from my classmate, named _____.





ACTIVITY - 8

The purple frog is larger than many other frogs. It has a very fat body and short, stout limbs. Males are 60% smaller than females. The small



head seems too short for the body and the firm snout sticks out in a small white knob. The purple frog has a shovel-shaped bump on each back leg and rounded toes on the webbed feet for digging. The snout and legs help the frog dig in the ground for insects. The

small, clear, black eyes are above the narrow mouth. The frog's mouth is only large enough to eat small insects like termites, the frog's favourite food.

The small, rounded tongue sticks out between the hard upper jaw and the soft lower jaw. The tongue has a round tip and the frog has no teeth. The tail is light brown with dark brown patches. The smooth skin is dark purple on the back that fades to grey on the belly.

ACTIVITY - 9

When scientists discover new animals and plants, they describe them very carefully. Without careful description, two similar species might be confused. **Notice the careful details in the description of the purple frog.**

Which parts of the frog are carefully described?

What behaviours are described?

Underline all the adjectives that are used to describe the frog.

How many adjectives did you find?

ACTIVITY - 10

A.A. Milne wrote many poems for children and he often wrote from the point of view of a child. "At the Zoo" is one of his poems written from the point of view of a child. Children do not always know the right names for things and Milne illustrates this in his delightful poem.

At the Zoo by A. A. Milne

*There are lions and roaring tigers,
and enormous camels and things,
There are biffalo-buffalo-bisons,
and a great big bear with wings.*

*There's a sort of a tiny potamus,
and a tiny nosserus too -
But I gave buns to the elephant
when I went down to the Zoo!*

*There are badgers and bidgers and bodgers,
and a Super-in-tendent's House,
There are masses of goats, and a Polar,*

*And different kinds of mouse,
And I think there's a sort of a something
which is called a wallaboo -
But I gave buns to the elephant
when I went down to the Zoo!*

*If you try to talk to the bison,
he never quite understands;
You can't shake hands with a mingo -
he doesn't like shaking hands.*

*And lions and roaring tigers
hate saying, "How do you do?" -
But I give buns to the elephant
when I go down to the Zoo!*

*Which words in "At
the Zoo" do not
name real animals?
Which ones are
real?*

Not Real

Real





Helpline

Going Beyond the Textbook

Use the internet or library resources to collect more information on animals and other topics you've read about in your textbook. You may wish to search for more information on endangered animals or more poems by A.A. Milne. You may visit the textbook website, www.onlinetextbook.info, for more topics related to animals and find things other students have posted there, too. There is so much more to learn about our amazing world!

This design is based on providing comprehensible input to students and then allowing them to use the language from the input to make meaning. In this regard, students are always expected to read the language of the text themselves, NOT to have the teacher translate the content. Where readings are split into two parts to make them easier for students to handle independently, teachers can offer an additional listening activity by beginning Activity #2 with an oral reading of the text that the students read in Activity #1. The teacher may wish to read, "Battle in the Jungle – Part 1," clearly and with expression or allow a student to read. Simply use the listening as a reminder of the story beginning, then return to allowing students time and space to read Part 2 on their own. At times, additional recordings of texts will be available on www.onlinetextbook.info

This model will be new to many students. Teachers can be prepared for the initial confusion of students by remembering to focus on helping students to understand the questions, not to help them answer.

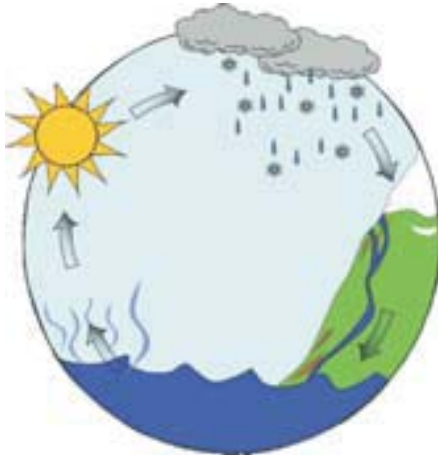
Any activity that seems initially difficult may be scaffolded by turning it into a full-class activity. For example, as a pre-activity to group dialogue writing, the teacher can divide the class in sections assigned to each part of the dialogue. Ask each section to contribute a line and record the dialogue on the board, one line at a time, as the class creates it. Do not over-correct students first utterances, rather simply elicit responses and encourage students to elaborate them only until they can express their idea to the rest of the class. Keep the students excited and interested in the task. Encourage students to help each other with vocabulary. If a student offers a response in the primary language, encourage the production and request help from students to express the same idea in the target language, or, if a word offered is new to the class, simply say, "Good! [Say the word in English.]," and write the word in only English on the board for all to see. Use the word several times in the lesson.

Where time permits, students will benefit greatly from repeating the activity with different assigned parts as a pair or small group activity. As often as possible, the teacher should facilitate additional language use by giving students time to share any work they do in small groups with their other classmates. Teachers will find it more time efficient and more conducive to language production to give students a few minutes individually or in pairs to share their work with others, rather than asking one student at a time perform for the entire class. Remember the goal is not to test the performance of one student but to allow the entire class to meaningfully produce language.

UNIT-3

Water, Water, Everywhere

ACTIVITY - 1



This unit is about the water that is necessary for life on our planet. Look at the picture. Write the names of as many objects as you can.

What is happening to the water in the picture?

ACTIVITY - 2

Water Boy– Part 1

Vijay liked to play with water. He liked to play with water in many ways:

- He liked to fill up a big tub with water and play with his toy boat in there.
- He liked to make big mud puddles in the garden and pretend it was a lake.
- He liked to open the hose and splash his friends when they walked by.

His mother told him many times not to waste water, but he did not listen.

One day his mother decided to take him with her to visit her brother. Vijay's uncle stayed in a small village. Vijay was very happy to go because he would be able to play with his cousins.

Vijay and his mother arrived at his uncle's place late at night and Vijay went off to sleep. Suddenly, in the middle of the night, Vijay woke up. There was a lot of noise outside his room. Vijay could not understand why so many people were awake at night, but he was very tired. Very soon, he fell back to sleep.



ACTIVITY - 3

What characters have been mentioned in the story so far?

While Vijay was sleeping, something happened to wake up the other people in the house. What do you imagine might have happened?

Ask your classmates what they think might have happened in the house. Write down the idea of your classmate that you find most interesting.

ACTIVITY - 4



Water Boy– Part 2

The next morning, Vijay got up and went to the bathroom. When he opened the tap, there was no water. He looked around and found water stored in many buckets. He was surprised and asked his cousin about it.

His cousin, Rajesh, explained that there was no water anywhere. It had not rained for a couple of years and all the lakes had dried up. They had to depend on some water that came from one tap and they had to keep awake to see that they did not miss it as it could come any day and any time!

Last night, luckily the water had come, but it might be days before it came again. Till then, they would have to only use the water they had collected in the night. Rajesh told Vijay to be careful and not to waste water.

If the family ran out of water, they would have to buy water from someone else, and it was very expensive.

Rajesh gave Vijay some examples of ways to use water wisely:

- He gave Vijay a glass of water and told him to use it for brushing his teeth.
- He told Vijay to take a bath with a very small amount of water in a bucket.
- He told Vijay to save the water used for washing his clothes so it could be used again later.

Vijay was surprised – he had never imagined that there could be a place where water was so scarce. His cousin laughed at Vijay and said, “Vijay, you use too much water every day. Soon there will be less rain, and you may have the same problems that we are facing now. You should learn to save water.”

Water is so important to people that it has inspired art, songs, and poems. Here is a poem about water by Mary Oliver. Mary Oliver is a well-known American poet who loves water. She lives near the ocean and writes many simple, but beautiful poems, about the nature around her. She writes about shore birds, water snakes, humpback whales, the ponds, and the harbour where she likes to take long walks.

ACTIVITY - 5



Vijay is carrying water. Imagine what Vijay will do with the water. Do you imagine him wasting water or using it wisely? Write one sentence describing what Vijay will do with the water.

Vijay will

Does your sentence describe Vijay using water wisely or wastefully?





Read your sentence to the class. Listen to classmates read their sentences. **Keep count of how many sentences describe Vijay using water wisely and how many sentences describe Vijay using water wastefully.**

Number of Sentences with a Wise Use of Water	Number of Sentences with a Wasteful Use of Water

Look at your count. Did your class imagine more wise uses of water or more wasteful uses of water?

What was one example of a wise use of water that one of your classmates imagined?

What is the name of your classmate who imagined this example?

What was one example of a wasteful use of water that one of your classmates imagined?

What is the name of your classmate who imagined this example?

Put your ideas and the answers to these questions in the paragraph below to help you describe the results of this activity for your class. Read your paragraph out a loud to a classmate.

In my class, more students described _____ ways of using water than _____ ways. My classmate, named _____, gave an example of a wise use of water: _____ . My classmate, named _____, gave an example of a wasteful use of water: _____ . I described a _____ use of was _____ .

ACTIVITY - 6

At Blackwater Pond Mary Oliver

At Blackwater Pond the tossed waters have
settled
after a night of rain.
I dip my cupped hands. I drink
a long time. It tastes
like stone, leaves, fire. It falls cold
into my body, waking the bones. I hear them
deep inside me, whispering
oh what is that beautiful thing
that just happened?



ACTIVITY - 7

Look carefully at Oliver's poem, "At Blackwater Pond", to answer these questions:

The title, "At Blackwater Pond", tells us that the poet is "at" a certain place. **Use "at" to write a sentence telling where you are now.**

The poem says, I dip my cupped hands.
 I drink a long time.
 It tastes like stone, leaves, fire.

What tastes like stone, leaves, and fire?

The poem says, It falls cold
 into my body, waking the bones. I hear them
 deep inside me, whispering
 What *wakes up* in the poem and what do they
 say when they wake up?

Full stops (periods) and question marks tell us when we are at the end of a sentence. How many sentences does *At Blackwater Pond* have?

Commas tell us when a sentence has more than one part. Which sentences in the poem have more than one part?





ACTIVITY - 8

Oliver could have ended each line at the end of a sentence like this:

At Blackwater Pond the tossed waters have settled after
a night of rain.

I dip my cupped hands.

I drink a long time.

It tastes like stone, leaves, fire.

It falls cold into my body, waking the bones.

I hear them deep inside me, whispering oh what is that
beautiful thing that just happened?

Notice how the sentences differ. Some sentences are long, some are short, some sentences have more than one part, and one sentence is a question. The different kinds of sentences in Oliver's poem make it more interesting. Work with your group to write a poem about a place that uses sentences like Oliver's.

At _____

At _____.

_____.

_____.

_____.

_____?

Share your poem with your classmates.

ACTIVITY - 9

Water, Water, Everywhere

How much water is there on Earth? There's a lot! Something like 1,260,000,000,000,000,000 litres can be found on our planet. This water is in a constant cycle-- it evaporates from the ocean, travels through the air, rains down on the land, and then flows back to the ocean.

The oceans are HUGE! Most of the earth is covered in oceans. Ninety-eight per cent of the water on the planet is in the oceans, and therefore is un-drinkable because of the salt. Only about 2 per cent of the planet's water is fresh, but 1.6 per cent of the planet's fresh water is locked up in polar ice caps and glaciers. Another 0.36 per cent is underground in wells. Only about 0.036 per cent of the planet's total water supply is found in fresh lakes and rivers. The small percentage in lakes and rivers is still many trillions of litres, but it's a very small amount compared to all the water in the whole world.

The rest of the water on the planet, .004% is either floating in the air as clouds and water vapour, or is locked up in plants and animals. Did you know that *your body* is 65 per cent water? That means if you weigh 30 kilograms, 19.5 kilogram of you is water!

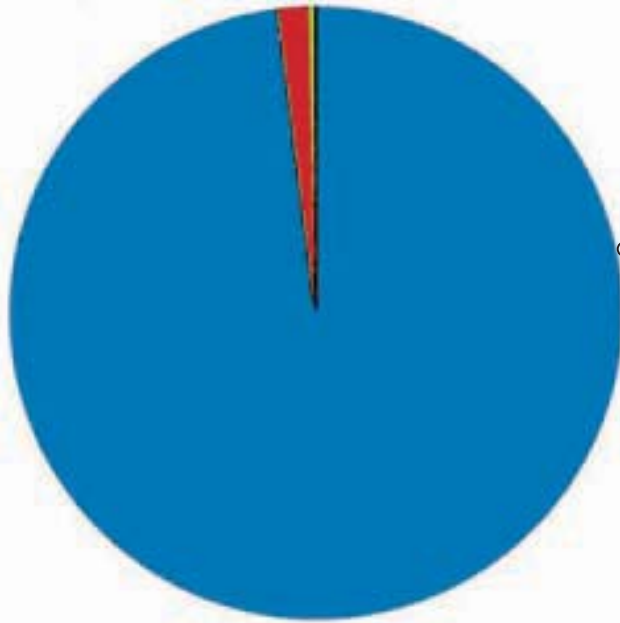
ACTIVITY - 10

The text, "Water, Water, Everywhere," has a lot of numbers! Sometimes numbers are easier to understand in graphs or charts. A pie chart is a circle divided into parts, like a pizza pie. How many parts does the pizza have? Which part shows one half of the pizza?



Pie charts show the size of each part of the whole pie. How many parts does the pie chart below have? *Notice two of the parts are very, very small!*

Read *Water, Water, Everywhere* carefully and show your understanding by matching the places in the pie chart with the correct colours.



Where's
the water?

Match the chart colour with its place.
One is done for you.

- Underground
- Lake & Rivers
- Oceans
- Polar Ice Caps
- People, Animals, Plants

Helpline

Going Beyond the Textbook

Use the internet or library resources to collect more information on water and other topics you've read about in your textbook. You may visit the textbook website, www.onlinetextbook.info, for more activities related to water, and you can post things you've learned there, too. There is always something new to learn!

Remember throughout these units that the best answers are all the different original ideas that your students can imagine! If children imagine many interesting things that might have happened to wake Vijay, for instance, you may wish to extend the activity by letting them write a new story of their own about Vijay and what happened that night.

Traditionally, poems have been either treated as stories where students learn facts about the poem or as something to be enjoyed without further explanation, but poetry is a very exacting use of language and will be better appreciated when students look carefully at the language the poet has carefully crafted. Remember to focus on helping students notice this language. Avoid translating. Help students to discuss vocabulary first with other students to help them understand new words. The language task is designed to encourage students to notice the form of the poem on their own. Avoid answering the questions as though they were facts to be learned. Instead, direct students to focus on the text in order to answer on their own.

UNIT-4

Trash to Treasure

ACTIVITY - 1

This unit is about reusing or recycling things instead of just throwing them away. This art was made with many things.

Look carefully and name as many things as you can. Make a list.



How many different things did you name? Compare with a classmate. Do you have the same number? Did you miss something your classmate saw?





ACTIVITY - 2



A New Dish – Part 1

Once, the Maharaja of Travancore ordered a huge dinner in his palace for many important people. The afternoon before the dinner, the maharaja entered the kitchen to see what dishes were being prepared for his guests. The feast was nearly ready. The king was happy to see rice, pickles, chutneys, and breads. Then, the king noticed a basket full of many small pieces of vegetables that no one was using.

The king asked the head cook, “What will you do with all these vegetable scraps?”

“They are waste, Sir. We will throw them away,” the cook replied.

“We should not waste all these vegetables,” the Maharaja said. “Find a way to use them,” he commanded. Then he turned and left the kitchen.

Now, the cook was worried. He stared at the scraps and thought. There was only a little yam, plantain, cucumber, and potato. There was carrot, a few beans, and a few chillies. He only had small amounts of everything, except for one thing.

Outside, he had a whole tree full of ripe coconuts....

New Words

Scrap : small piece left over

Did you find more new words? Write them here to help you remember them.

ACTIVITY - 3

In the story, "The NewDish", two people speak:

The king asked the head cook, "What are you going to do with all those vegetable scraps?"

"They are waste, Sir. We will throw them away," the cook replied.

"We should not waste all these vegetables," the Maharaja said. "Find a way to use them," he commanded.

How does the punctuation show you that the character is speaking and asking a question? **Notice and copy all the quotation marks and question mark for the character's question.**

The king asked the head cook

Show your sentence to a classmate. Work together to look closely at the sentences in the story and to look closely at your own sentences. Work together to make sure each sentence is correct.

Did you both get all the punctuation correct? If not, what can you change to correct it?

Imagine that the head cook asks one of his helpers what he should do with the vegetables and that the helper makes a suggestion. **Work with a classmate to write a new question and answer. Be careful to use the punctuation that you see in the story.**

The head cook asked his helper

the helper replied





ACTIVITY-4

The story lists the vegetables that the cook had in the basket of scraps:

“There was only a little bit of yam, plantain, cucumber, and potato. There was a small carrot, a handful of green beans, and a few chillies.”

Find the other sentence in the story that makes a list. Notice the punctuation that separates the words in the lists. Look carefully at the sentences, and make a new sentence that lists at least four items you have in your home.

In my home, there is

Share your “list sentence” with your classmate. Work together to look closely at the sentences in the story and to look closely at your own sentences. Work together to make sure each sentence is correct.

Did you both get all the punctuation correct? If not, what can you change to correct it?

ACTIVITY-5

A New Dish – Part 2

(Do you need to read Part 1 again?)

The cook stepped outside, looked up at the tree, and, suddenly, he had an idea!

He took all the vegetable bits, washed them, cleaned them well, and cut them into long strips. He put them all into a huge pot and placed it on the fire to cook. Next, he ground the fresh coconut. He added green chillies, garlic, and some salt.

Soon, the vegetables were all cooked. He stirred in the coconut and plenty of curd, poured on some coconut oil, and sprinkled it all with curry leaves.

The new dish was ready!

The cook served his invention to the guests that evening. The guests loved it! The king liked it so much that he gave the cook a beautiful gold bracelet as a reward.

Everyone was eager to know the name of the new dish. The cook thought and thought. What could he call this mixture of many things?

Then, he thought of it; he named the dish “*avial*”.

Avial became famous all over Kerala and is now one of the dishes in traditional feasts of Kerala. Isn't it amazing that it all came from a basket of scraps and a good idea?

ACTIVITY - 6

The story told how the cook created avial for the first time. The cook did not have a recipe. A recipe is a list of instructions for making a food dish. Recipes list the ingredients, the foods used to make the dish, and the method for cooking it. For example, here is a recipe:

Ingredients and Amounts: (Serves 1 person)

Dried pasta	3/4 cup
Butter	1 Tablespoon
Amul cheese spread	2–3 Tablespoons
Milk	¼ cup
Salt	pinch

Method:

1. Boil water in large pot. Add pasta, salt, and a small amount of the butter.
2. Cook pasta till tender. Drain water.
3. Add butter, milk, and cheese spread to pasta. Heat gently until butter and cheese melt.
4. Serve hot.





Read and discuss this recipe with your classmates. Decide together:
What do you think this recipe makes?

Now, read the story, “The New Dish,” carefully, and show your understanding of the story by creating a recipe for a meal. First, list the ingredients, then the method that the cook used to create the dish. You will need to invent the amounts. Be sure to include enough ingredients for the King's feast!

Ingredients and Amounts: (Serves 1 King and All His Important Guests)

Method :

ACTIVITY - 7

You have read a story about making a new dish from waste scraps of vegetables.



Let's think about this some more. First, look at the picture and imagine shopping for a big birthday party! Pretend you have all the money you need for a big party. Work with a group or a partner to name all the things you would buy.

Now, work together to imagine all the things that would be left over AFTER the party. **Name as many things as you can. You will need a big list for the next activity.**

ACTIVITY - 8

In the last activity, you and your classmates made big lists of things left over after a party. **Compare your list to other lists in the class. Did you forget something that another classmate listed? Add to your list if you need to.**





I added _____
to my list.

ACTIVITY - 9

- 1) Work with a group or partner to think of something new you could make with all the things left over after a party.
- 2) Draw your new thing.
- 3) Label it with the names of all the things you use to make it.
- 4) Count the things you used.
- 5) Have a contest with your classmates. The group that uses the most things wins.

Our group imagined a _____.
Our plan used _____ (number) things.

Which group won the class contest?

ACTIVITY - 10

36

Imagine that you have some old, warm blankets that you are not using. You want to give these to people who need them. Imagine all the ways that a person might use your old blankets. **Try to think of the most unusual ways to use blankets that you can. Write at least three ideas.**



1. _____
2. _____
3. _____

Ask as many classmates as you can about their ideas. Write five good ideas from classmates that you think are interesting and useful.

1. _____
2. _____
3. _____
4. _____
5. _____

With a group, discuss all the ideas on everyone's list for using old blankets. Rank the top five most unusual and useful ideas.

1. _____
2. _____
3. _____
4. _____
5. _____

Our group thinks the most unusual and useful idea for using an old blanket is

Helpline

Going Beyond the Textbook

Use the internet or library resources to collect more information on topics you've read about in your textbook. You may wish to search for more information on recycling programs in your state or for more things that can be made from trash. You can watch a video of how to make avial here <http://www.youtube.com/watch?v=XtnG37texEI>.

There are many more stories, poems, and activities for this unit on the textbook website, www.onlinetextbook.info. Check it out! There's always something new to learn and share!



UNIT-5

Invention

ACTIVITY - 1

This unit is about inventions and inventing.

Look carefully at the picture. There are many things in it!

Name as many as you can in English!



In your list, underline all the things that were invented.

38

ACTIVITY - 2

Do you know who invented the light bulb?

You may know the name Thomas Edison as its inventor, but often, one person is remembered for inventing something that many people

UNIT-5

Invention

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ACTIVITY - 2

Do you know who invented the light bulb?

You may know the name Thomas Edison as its inventor, but often, one person is remembered for inventing something that many people

helped with. Edison didn't really invent the light bulb by himself. He used earlier inventions by other people, and he had a large team of people working with him. Edison did not really invent the light bulb, but he did make it better. Edison saw a big problem with the earlier inventions for light bulbs. They did not last long enough and they were not easy to make in large numbers. Edison worked with a team to solve the problem. They made the first light bulb that lasted long enough and could be sold for use in homes.

Do you know any other famous inventors? Perhaps you know who invented the printing press or the telephone. These famous inventors saw a problem, just as Edison did. Edison saw that people needed light after dark but that the light bulbs of other inventors did not last long enough or could not be made cheaply so that many people could have them. Edison solved the problems. Inventors solve problems.

ACTIVITY - 3

Here are some more famous inventions. Work with a partner or group to add three more inventions to the list. What are some problems that each of these inventions solved?

Sewing Machine	
Oven	
Antibiotics	

Individually, list three real problems that you know about that might be solved with a new invention.

In a pair or group, share the list of problems you each made. Use ideas from everyone's list to make a new list. The new list will list the five most serious problems from all the lists you shared.





Our group looked at everyone's list and agreed these five problems are all very serious....

1)

2)

3)

4)

5)

ACTIVITY - 4

You don't need to be famous to invent things. You don't even need to be grown up. You just need to see a problem and think of a new way to solve it. **Read this story about a young boy who invented a new way to solve a problem.**

Smart Boy Invents Smart Bell – Part 1



Newspaper Report June 2011
England, UK –

A British schoolboy will earn up to 20.5 lakh for his invention of a doorbell that fools burglars into thinking somebody is at home in an empty house. Laurence Rook, 13, from southern England, is the inventor of Smart Bell. Smart Bell looks and works like a regular doorbell. Usually, visitors ring the doorbell to let the owner of the house know someone is at the door. The owner “answers” the doorbell by opening the door to admit the visitor.

But what if no one is home? Then, no one will answer the doorbell and the visitor will go away.

Sometimes in the UK, burglars ring the doorbell. If no one answers, they may go into the empty house and steal things! However, if no one answers the Smart Bell, the Smart Bell does something special....

What is the problem in “Smart Boy Creates Smart Bell”?

Do you think this problem is more or less serious than the problems in the list your group made in the earlier activity?

New Words

Burglars

This invention FOOLS burglars. What does "FOOLS" mean?

ACTIVITY - 5

Add Laurence's problem from the newspaper report to your list from the earlier activity. Now, work in a new group to rank the problems in order of seriousness. Number the problems where 1 is the most serious of all and 6 is the least serious.

Our group list + Laurence's problem	Seriousness RANK

Where did Laurence's problem rank on your list? In other words, what number did Laurence's problem have on your list? For example, if your list ranks Laurence as number 3, then your group believes that Laurence's problem is the third most serious problem on the list.



We ranked Laurence's problem number _____. We think that Laurence's problem is the _____ most serious problem on the list.

ACTIVITY - 6

Compare your ranking for Laurence's problem to other lists in the class.

Our rank for Laurence's problem	Number of lists in our class that rank Laurence's problem higher than ours	Number of lists in our class that rank Laurence's problem lower than ours

Our group ranked Laurence's problem as the _____ most serious problem.

_____ lists ranked Laurence's problem as more serious than we did.

_____ ranked Laurence's problem as less serious than we did.

ACTIVITY - 7

Smart Boy Invents Smart Bell – Part 2

Newspaper Report June 2011

When the Smart Bell is pressed, it waits ten seconds to see if the home owner answers.

If no one answers, the Smart Bell dials the owner's mobile phone! The owner can answer the phone and talk to the visitor standing at the front door.

Laurence's invention uses existing mobile phone technology and has a built in SIM card. He also made the Smart Bell create a small amount of white noise.

The white noise makes the Smart Bell sound like the owner is inside the house talking on an intercom.

The white noise doesn't sound like a mobile phone so the visitor cannot tell the owner is not at home.

Laurence first got his idea because his mom didn't like to miss deliveries while she was away from home. Laurence helped by creating a way for his mom to talk to delivery workers even when she was not home.

But Laurence soon saw that his idea could solve a much more important problem. He saw that it could stop burglars. "...Burglars ring the doorbell first to see if anyone is at home.... If you are out and a burglar comes up to your door and rings the doorbell, after ten seconds, Smart Bell will ring through to your mobile phone and you will be able to answer." The burglar will not know the house is empty.

Laurence came up with the idea for the Smart Bell when his school asked students to enter a contest for student inventions. Laurence thought of problems he knew about that could be solved with inventions. He drew designs to show his idea.

A family friend helped him to send his design to China, to a company that makes working models from designs. They showed the model of his idea to companies. Less than 12 months after the model was built, several other big companies are ready to sell Smart Bell. Laurence and the companies hope that Smart Bell will be very popular.





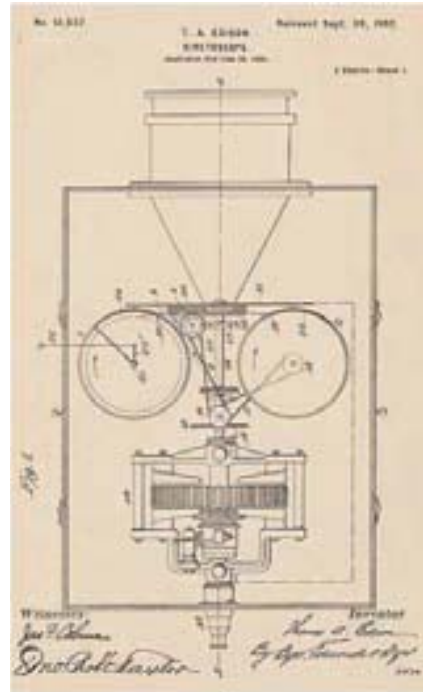
ACTIVITY - 8

Laurence had to draw the design for his invention before the company in China could make it. Inventors often draw their designs to show how their idea will work.

Read the article very carefully to find out all the things that Smart Bell does. How many things does Smart Bell do?

Think about all the parts that Smart Bell must have to work. How many parts do you think it needs?

How would the parts be connected?



Work in a pair or group to draw a possible design for Smart Bell showing all the parts needed to make it.

Label your drawing and write a few sentences to explain how it works.



Share your design with the class. Did others think of other designs for the Smart Bell?

ACTIVITY - 9

Not all inventions are machines or medical miracles. Did you know that Shakespeare, the author of many famous plays, such as Romeo and Juliet also invented many words that we still use today?



Look carefully at these words that Shakespeare invented. What do the words have in common? How do you think Shakespeare thought of them?

bedroom downstairs farmhouse moonbeam schoolboy
birthplace eyeball leapfrog roadway watchdog

All the words are made of two simpler words put together. For example, watch + dog = watchdog.

ACTIVITY - 10

You can invent a word right now! **Invent a new word by putting two simpler words together into one. Be creative in inventing the meaning for your new word!**

My word is _____ . My word is made of the words _____ and _____ .

Write these sentences that show what your invented word means. Make sure that your classmates will be able to understand the meaning of your word from your sentences.





Helpline

Going Beyond the Textbook

Use the internet or library resources to collect more information on inventions and other topics you've read about in your textbook. You may wish to search for more inventions by children or for more famous inventors. You may visit the textbook website, www.onlinetextbook.info, for more activities related to inventions. Be sure to post things you've learned there, too. The world is full of interesting things!

Remember throughout the activity that the goal is for students to notice and produce language. There are no "right" answers to the questions asked. The activity of drawing Laurence's invention is designed to encourage students to read the text carefully, to make inferences, and to apply what they learn from it. If students do not notice all the functions or parts, continually refer them to the text with questions that encourage them to think more carefully about the reading. You might say, for instance, "What's this part in paragraph 2? It says that it 'works like a regular doorbell.' What does that mean?" Students will need to infer what parts a bell needs and what parts a phone needs. Students may not think about how, exactly, the Smart Bell "waits ten seconds". Encourage close reading and critical thinking by asking leading questions, but give the students time to work this out for themselves. Allow the students to get creative, deciding that the Smart Bell should come in different colours, etc. Due to space limitations, this printed text has only a portion of the available texts and activities. Find more activities on the textbook website, www.onlinetextbook.info.

UNIT-6

Shadow and Light

ACTIVITY - 1

My Shadow

by Robert Louis Stevenson

1. I have a little shadow that goes
2. in and out with me.
3. And what can be the use of him is
4. more than I can see.
5. He is very, very like me from the
6. heels up to the head;
7. And I see him jump before me,
8. When I jump into my bed.
9. The funniest thing about him
10. is the way he likes to grow
11. Not at all like proper children,
12. which is always very slow;
13. For he sometimes shoots up taller
14. like an India-rubber ball,
15. And he sometimes gets so little that
16. There's none of him at all.
17. One morning, very early,
18. before the sun I was up,
19. I rose and found the shining dew
20. on every buttercup;
21. But my lazy little shadow,
22. like an arrant sleepyhead.
23. Had stayed at home behind me and was
24. Fast asleep in bed.

New Words

Work with your teacher and classmates to understand the meanings.

Proper

India-rubber

Dew

Buttercup

Lazy

Arrant

Did you find more new words? Write them here to help you remember them.



ACTIVITY - 2

Work with a group or partner to write the numbers of the lines from the poem that match each meaning. You might need more than one number for a meaning.

- _____ The shadow is similar to the poet.
- _____ Children don't get tall quickly.
- _____ Some balls bounce very high.
- _____ The shadow shrinks.
- _____ The poet doesn't think the shadow is useful.
- _____ The poet sometimes wakes before dawn.

In a funny way, the poet describes something that everyone has seen. We all know that our shadow cannot be seen when there is no light, but is it true that the shadow was asleep while the poet was outside awake in the morning?

What else could the poet imagine happened to his shadow? **Work with your group or partner to make a new story about where the shadow goes when you can't see it. Give your new story a title. Make your poem rhyme or not, but try to think of a new idea that no one else has thought of.**

The title of my story is _____.

One morning, very early, before the sun was up, I ...

But my shadow....

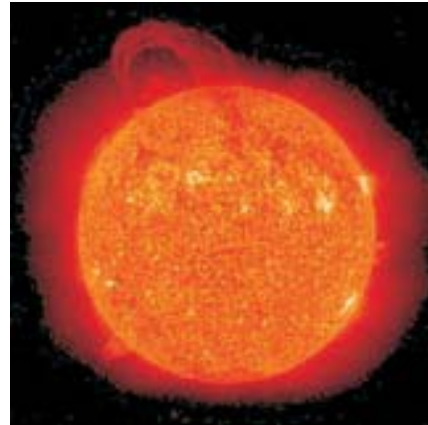
Share your story with your classmates. Which story was the most unusual?

ACTIVITY -3

Do you know that it takes some time for the light from the sun to reach the earth?

How long do you think it takes?

Read carefully to find out.



If you know how to divide, you can figure out how long it takes for the light from the sun to reach the earth. Read carefully and follow these directions. The sun is very far away from earth. It is one hundred and fifty million kilometres away. Write down 150 followed by six zeros. Now that you know the distance, you need to know the speed of light. Light is very fast. It travels at three hundred thousand kilometres per second. That is 3 followed by five zeros. If you divide 150 million by 3 hundred thousand, you get the number of seconds that it takes for light to travel to earth from the sun. How many seconds is that?

ACTIVITY - 4

Did you read carefully? Do the math here to find out how long it takes for the light from the sun to reach the earth. Check your understanding with other classmates. If you have different answers, read again more carefully until you all agree that you have the right answer.





ACTIVITY - 5

Have you heard of shadowgraphy? It's the art of using the hands to make interesting shadow shapes on a screen. The art has been around a long time. European travellers learned it when visiting China, but, at that time, people used puppets. Later some people started doing shows with hand shadows. A boy, named Félicien Trewey, left home at 15 years old to become a performer and a magician. He became very popular for his hand shadows. He liked to make his hands look like the shadows of famous people!

There is scientific evidence that doing hand shadows activates a part of the brain called Broca's area. This part of the brain helps with language. So, doing hand shadows may help you speak English!

If you'd like to try making some hand shadows, start with a nice bright light in a dark room, and shine the light so that your shadow shows on a blank wall.

One of the easiest hand shadows to start with is a bird. You can easily make the bird fly by moving your fingers. Try it and see!



New Words

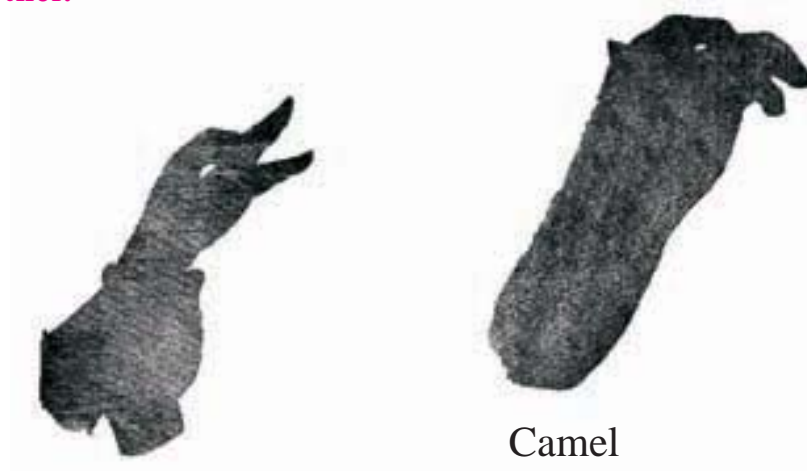
Shadowgraphy:

Broca's Area:

ACTIVITY - 6

Let's activate Broca's area and practice some English at the same time!

Work with a partner. Sit back to back so you can't see each other's hands. You choose one animal shadow and your partner chooses the other.



Goose

Camel

Work out on your own how your hands should be to make your animal. Then practice your English by describing the position of your hands to your classmate. You might need phrases such as

“my thumb is over my”

“bend the ring finger”

“put your left hand under your right hand”

If you can see your shadows, you can check to see if your animal shadows match. If you can't, you can both try to match the position of your hands and then look to see if they match. Take turns describing and matching.





ACTIVITY - 7

A Moth with a Dream

adapted from "The Moth and the Star," by James Thurber

Once upon a time, a young moth fell in love with a beautiful star. He told his mother one day, he would reach the star, but she told him he should dream of something closer, something easier, like a nice lamp.

"Stars aren't the kind of thing you should be working for," she said. "Lamps are the thing. Find a nice lamp."

Moth's father said, "Yes, you can easily reach a lamp. You'll never be able to reach a star." But the moth did not listen to his mother and father. Every evening, when the star came out, he would start flying toward it. Every morning, he came back home worn out from flying all night.

One day, his father said to him, "You haven't burned a wing yet, boy, and it looks to me like you never will. What's wrong with you? All your brothers have burned their wings flying around street lamps. All your sisters have burned their wings flying around house lamps. Come on, now, this is what we do. You aren't afraid of a little burn, are you?"

The moth wasn't afraid, but he didn't want to fly around street lamps or house lamps, so he left his father's house. He never changed his dream. When he grew up, he continued to believe.

Every night, he went right on trying to reach the star. Of course, this star was four and one-third light years, or 40,000,000,000,000 kilometres, away, but the moth did not know that.

The moth thought the star was just caught in the top branches of a tall tree.

The moth went right on trying, night after night, but he never did reach the star. Finally, when he was very, very old, his mind began to play tricks, as minds sometimes do. He began to believe that he really had reached the star. Often, he told stories of his adventure catching a star. No one listened, but he was happy anyway. For his entire long life, the moth believed in his dream and he lived to be a very, very old moth. He was happy, but his mother, father, brothers, and sisters all burned to death when they were quite young.

ACTIVITY - 8

Look carefully at the story “A Moth with a Dream”. The story has many words in it that help tell the reader WHEN something happens, such as

Once upon a time
Every night
Every morning
Often

Look for all the ways that the writer tells you WHEN something happens. List all these words and phrases.

Count all the words and phrases you found that you think tell the reader WHEN something happens. How many did you find?

Compare your list to other classmates' list. Did someone find more than you did? Can you help someone find one they did not?

Write three sentences that tell about something you did that use the phrases you see in the story.





ACTIVITY - 9

We began our unit on Shadow and Light with a poem about shadows. Let's finish our unit with some poems about light. These poems are about light and the first letter of every line spells light. Poems like this are called acrostics. **Read the poems.**

L end me a candle.	L ook how dark it is.	<i>L</i> ight
I ll set it alight.	I don't have a torch.	<i>I</i> n sun's rays
G ive me your hand.	G o to the wall.	<i>G</i> o up, down, and around
H old it tight.	H ere is the switch.	<i>H</i> it, bounce, and bend
T ogether we walk out of the dark.	T urn on the light.	<i>T</i> o make my shadow dance.

ACTIVITY - 10

Write your own acrostic using the word "light". Decorate your letters any way you wish.

Share your poem with your classmates.

Helpline

Going Beyond the Textbook

Use the internet or library resources to collect more information on light and shadow and other topics you've read about in your textbook. You can learn more about moths http://www.wpclipart.com/education/coloring_pages/connect_the_dots/connect_dots_moth_page.png

You can watch a video of a wonderful show made with hand shadows here <http://www.youtube.com/watch?v=ugNKGTnGIA0>. You may visit the textbook website, www.onlinetextbook.info for more activities related to light and shadow.

Remember during the math activity that this is not a math class. Allow students time to read carefully and to compare their understanding with the understanding of others. The math problem is their way of checking their own understanding of the reading. Allow them time to re-check their reading, rather than be concerned about the answer they get.

The poem, My Shadow, is broken into short numbered lines to make it easier to read and discuss. Teachers of advanced students may wish to show students the original poem and allow students to decide if they think there is a difference in meaning or feeling.

The hand positions and diagrams for making more shadows are on the www.onlinetextbook.info site. Encourage students to have fun with trying to describe their hand positions and to experiment with other shapes. If at all possible, try to have a small, bright lamp pointed at a wall so they can test their shadow shapes. If it's not possible at school, encourage them to try at home.

There are a number of additional texts and activities prepared on this theme on the textbook website, including an alternate version of the moth fable and a series on how light works. Download them for use in your classroom on www.onlinetextbook.info.

Formative Assessment

Throughout the use of the this textbook, the goal is to encourage students to notice and produce language so that they move from a novice stage of comprehension to an intermediate stage of production. Throughout the book, the teacher's focus is on facilitation of the activities. The teacher facilitates by continually supporting students in understanding the text and questions. The teacher is never responsible for teaching the content of the lessons or for eliciting certain answers from students. Assessment should reflect this goal. Where possible, assessment should be conducted via interview or via open ended essay questions so that teachers and parents can see that students are becoming more and more proficient in producing language at an intermediate level.

The key to assessment using this design is to assess what students would know how to DO after they have accomplished the language tasks in the book. Remember that the goal in using the this design is never to test content. Students will certainly learn from the content, but content is merely there to be interesting and to give students something to focus on while learning to use the target language.

A few assessment samples are included in the Revision section of this text. Teachers can download more free, printable assessment items on www.onlinetextbook.info.

