Teacher's Guide 1

Everyday Science 1









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Introduction |

Children want to know things. Early guidance and varied experiences do much to stimulate the development of their natural intelligence.

A teacher can play a very important role in arousing the interest of students by allowing them to discuss facts and ideas. The teacher can then help students draw conclusions from these facts and ideas as to why and how things happen.

The teacher can stimulate the thinking process of students by asking questions and encouraging them to ask their own.

Experiments allow students to test the facts that have been learnt by them for themselves, thereby clarifying the reasoning behind the activities that are done in class.

This course has been developed to provide information about the world around us, on which students can base their opinion, verify information, come to conclusions, and use the knowledge they have gained in their everyday lives. It will help gain and maintain the curiosity and enthusiasm of students who have just started studying science. Concepts developed at this stage will be of use later in their studies at an advanced level. It will help them develop a better outlook on life.

About the Pupil's Book:

This science series, now completely revised, has been written especially for primary level students. It provides information suitable for each student's level of understanding and has a direct appeal to students who need engaging and easy to read material. Baring in mind the interests, abilities, curiosities, and needs of students, it provides stimulating learning experiences that offer enjoyable educational motivation, thus serving as a foundation base for future learning.

The keyword in science is curiosity. The material in this series is designed to create in a child the same urge that motivates a scientist; the desire to know the answer to a question. A wide range of topics were carefully selected that will interest and inspire students.

Teachers will come to see that this series deals with those broad areas about which, most students frequently express curiosity; that it provides answers to many of the questions they ask, and offers new and exciting information in many fields.



The language is simple and easy to read, catering for the students, range of abilities in each grade. Together, the text and illustrations motivate children to discuss, question, and explore.

The contents have been selected and presented in such a way as to capture and hold the interest of the students. The objective is to simplify complex ideas and present them in an interesting way. Every effort has been made to keep the language simple.

When it is necessary to use a specialized word, it has been used. When it is not self explanatory within the context, it has been defined. Clear and well-labelled illustrations have been included, which help identify and clarify the topics that are dealt with.

Good pictures and diagrams arouse and develop interest. These make lasting impressions. They help make the text clear. They also appeal to the child's imagination, while satisfying their curiosity and often provoking a favorable reaction.

Simple, practical, interesting and stimulating presentation of factual materials— offer every chance of successful learning experiences. Knowledge of problem-solving techniques, that if acquired can be applied in everyday life.

It is intended, through this series, to introduce children to many of the interesting and enjoyable things in science they can learn about and do for themselves. The series also intends to develop in them a quest for knowledge and an understanding of how science is shaping the world in which they live.

The role of the teacher:

It is up to the teacher to devise ways and means of reaching out to the students, so that they have a thorough knowledge of the subject without losing interest.

The teacher must use his/her own discretion in teaching a topic in a way that he/she feels appropriate depending on the intelligence level as well as the academic standard of the class.

To the teacher:

With your assurance and guidance the child can sharpen his/her skills. Encourage the student to share his/her experiences. Try to relate pictures to real things. Do not rush the reading. Allow students time to respond to questions and to discuss pictures or particular passages. It will enhance learning opportunities and will enable the child to interpret and explain things in his/her own way.

Introduction

Method of teaching:

The following method can be employed in order to make the lesson interesting as well as informative.

The basic steps in teaching any science subject are:

- (i) locating the problem
- (ii) finding a solution through observation and experimentation
- (iii) evaluating the results
- (iv) making a hypothesis and trying to explain it

Preparation by the teacher:

Be well-prepared before coming to the class.

- (i) Read the text.
- (ii) Prepare a chart if necessary.
- (iii) Practise diagrams which have to be drawn on the blackboard.
- (iv) Collect all material relevant to the topic.
- (v) Prepare short questions.
- (vi) Prepare homework, tests, and assignments.
- (vii) Prepare a practical demonstration.

The following may also be arranged from time to time.

- (i) Field trips
- (ii) Visits to the laboratory
- (iii) A show of slides or films
- (iv) Projects

This common strategy is easy as well as effective:

- (i) Before starting a lesson, make a quick assessment of the students' previous knowledge by asking questions pertaining to the topic.
 - Relate them to everyday observations of their surroundings or from things that they have seen or read about in books, magazines, or newspapers.
 - (ii) Explain the lesson.
 - (iii) Write difficult words and scientific terms on the blackboard.
 - (iv) Ask students to repeat them.
 - (v) Help students read the text.
 - (vi) Show materials, models, or charts.
 - (vii) Make diagrams on the blackboard.
 - (viii) Perform an experiment if necessary.



- (ix) Ask students to draw diagrams in their science manuals.
- (x) Students should tackle objective questions independently.
- (xi) Ask questions from the exercises.
- (xii) Answers to questions are to be written for homework.
- (xiii) The lesson should be concluded with a review of the ideas and concepts that have been developed or with the work that has been accomplished or discussed.

Conclusion:

The teacher can continue the learning process not only by encouraging and advising the students, but also by critically evaluating their work.

It is not necessary that the lesson begins with a reading of the textbook. The lesson can begin with an interesting incident or a piece of information that gain interest of the students and they will want to know more about the topic.

The topic should then be explained thoroughly and to check whether the students are following or not, short questions should be asked every now and then.

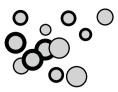
Sketches and diagrams on the blackboard are an important aspect to the teaching of science, but too much time should not be spent on them as the students lose interest. An alternative to drawing on the blackboard is a ready-made chart or one made by the teacher can be displayed in the class. The use of visual material keeps students interested as well as helps them make mental pictures which are learnt quickly and can be recalled instantly. Pupils should be encouraged to draw with the help of the teacher. Diagrams that are not in the text should either be copied from the blackboard or chart, or photocopied and distributed in the class.

Simple experiments can be performed in class. If possible, children may be taken to the laboratory occasionally and shown speciments of plants and animals, chemicals and solutions, and science apparatus, etc.

Practical work arouses interest in science. Class activities can be organized in such a way that the whole class participates either in groups or individually, depending on the type of work to be done or the amount of material available.

It is hoped that the above guidelines will enable teachers to teach science more effctively, and develop in their students an interest in the subject which can be maintained throughout their academic years, and possibly in their lives as a whole.

These guidelines can only supplement and support the professional judgement of the teacher but in no way can they serve as a substitute for it.







Science

Objectives:

To define science
To identify various living and non-living things

Teaching strategy:

Draw an ant on the board and label it. Ask: How many legs does an ant have?

Ask students what the colours of various things are.

Ask: Is jelly soft or hard?

Is ice hot or cold?

Ask about the size of various things.

Ask: Which is bigger, an elephant or a mouse?

What is the biggest animal in the world?

Can you pull a cart?

Can a kitten pull a cart?

Explain the difference between strong and weak with examples.

Ask if they know the story of the hare and tortoise.

Tell them the story then explain the difference between fast and slow with examples.

Ask: Where does a fish live? Where does a rabbit live? Where does a bird live?

Explain the living places of animals with examples.

Ask students what they think science is.

Tell students that science is when we use our senses to study the world around us.

Answers to Activities in Unit 1

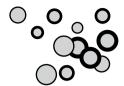
- 1. a) six
 b) red
 c) green
 d) soft
 e) hard
 f) cold
 g) hot
 h) round
 2. a) big
 b) small
 c) strong
 d) weak
 e) slow
 f) fast
- 4. Science is the study of the world using our senses.

Additional activity

Choose the best answer: a) A way of finding things out is called Urdu Science [Science] English b) The number of legs an ant has is _ 2 4 [6] 6 c) The coloured leaves of a flower are called [petals] petals sepals leaves d) Tea is white hot cold [hot] e) A horse is small strong slow [strong] f) The colour of an apple is blue [red] red purple g) The shape of a football is round square rectangle [round] h) A mouse is small strong big [small] i) A rabbit is_ fast slow strong [fast] j) A stone is soft hard hot [hard]







Animals

Objectives:

To know the different types of water animals

To know the structure of a small animal

To know the different types of small animals

To know the names of some wild animals

To know the names of some useful animals and how they are useful

To know the structure of a bird

To know the different types of birds

Teaching strategy:

Ask: What is the difference between a plant and an animal? Explain that living things are of two kinds: plants and animals.

Ask: Can you name some animals?

Explain that animals are of many shapes and colours.

Show students a chart of various animals.

Write the names of insects.

Draw a rabbit on the board. Explain that a rabbit is a small animal.

Ask: Can you name some small animals? Write their names on the board.

Draw a fish on the blackboard. Explain that a fish is a water animal.

Ask for the names of some water animals.

Write their names on the board.

Ask students if they know the names of any wild animals. Write their names on the board.

Ask: What do wild animals eat?
Ask: Where do wild animals live?

Explain what wild animals eat and where they live.

Ask students why animals are useful? Explain how some animals can be useful.

Ask: Which animals do we keep on a farm?

Ask: Which animals do we keep in the house as pets?

Explain how animals are useful to us.

Show the picture of useful animals in the book. Talk about them.

Ask: Where does a bird live? Ask: How does a bird fly?

Explain that birds need wind to fly.

Ask the names of some birds.

Write these names on the board.

Teach students to draw simple drawings of some animals.

Answers to Activities in Unit 2

- 2. a) elephant b) giraffe
- 3. a) lion tiger b) cow sheep c) duck parrot d) butterfly bee
- 4. a) no b) yes c) yes
- 5. a) ant b) bee c) fly d) butterfly
- 6. a) mouse b) rabbit c) squirrel d) cat e) dog
- 7. a) whale a) deer
 - b) starfish b) tiger
 - c) dolphin c) lion
- 8. a) cow gives milk
 - b) goat gives meat
 - c) sheep gives wool
 - d) horse pulls a cart
- 9. a) parrot b) crow c) duck d) sparrow e) peacock
- 10. a) fish b) rabbit c) fly

d) no

Unit 2 Animals

Additional activity

C	noose tne	best answer	r:				
a)	a) Which of the following is an insect?						
	rabbit	butterfly	cow	[butte	erfly]		
b)	Which of	the following	g is not a living th	ning?			
	book	ant	fly [be	ook]			
c)	Which on	e of the follo	wing is a big ani	mal?			
	cat	mouse	whale	[wha	ale]		
d)	Water an	imals live in					
	air	land	water	[wa	ter]		
e)	Which on	e of the follo	wing is not a wil	d ani	mal?		
	fox	tiger	goat	[go	at]		
f)	Birds fly v	with their					
	legs	wings	tails	[wi	ngs]		
g)	Which on	e of the follo	wing animals is	not a	farm animal?		
	horse	cow	monkey	[m	onkey]		
h)	A sea hor	se lives in th	ne				
	ground	sea	garden	[se	ea]		
i)	Which of t	he following	is not a water a	nimal	?		
	crab	starfish	ladybird	[la	adybird]		
j)	Which is t	he biggest la	and animal in the	worl	d?		
	elephant	giraffe	hippopotam	us	[elephant]		







Plants

Objectives:

To know the parts of a plant
To know the functions of each part
To know the various types of plants
To know how plants are useful
To know where plants can grow

Teaching strategy:

Draw a plant on the blackboard and label its parts.

Show a complete plant to the students and explain the function of each part.

Explain how fruits and seeds are produced. Cut some fruits and show the seeds.

Explain how seeds grow into new plants.

Explain non-green plants.

Explain how non-green plants get their food.

Draw various types of plants on the board. Write their names.

Ask: What is the difference between them?

Explain the difference in the size and strength of the stem.

Distribute leaves of various shapes to the students.

Show them the midrib and veins.

Explain the structure and function of the leaf.

Teach students to make a leaf print by rubbing a pencil on a piece of paper placed over the leaf.

Ask: How do we use plants?

Explain that some plant give us flower, vegetables, fruits and seeds. These plants are called useful plants.

Ask: Why are leaves green?

Explain the presence of chlorophyll.

Unit 3 Plants

Ask: How does a plant eat?

Explain how green plants make food in sunlight.

Draw a mushroom on the blackboard. Ask: What is the colour of a mushroom?

Where does a mushroom grow?

Ask: What do we get from plants?

Explain the usefulness of flowers, seeds, fruits, vegetables, etc. Ask: What is a table made of? Where does wood come from?

Explain that wood comes from the hard stems of trees.

Ask: What things can be made from wood?

Show the students a water plant growing in a glass jar.

Ask: Can plants grow in water?

Draw or show an image of a pine tree.

Ask: Where do these trees grow?

Draw a cactus on the board.

Ask: Where does a cactus grow?

Explain that plants can grow in different types of habitat.

Help students draw one of the following, flowers, leaves, roots, seeds, fruits, and vegetables.

Answers to Activities in Unit 3

- 1. flower, leaf, bud, stem, root
- 4. a) herb b) shrub c) creeper d) tree
- 5.a)Sb)Fc)Vd)Fe)Ff)Sg)Vh)Fi)F



6. Water lily Water
Cactus Desert
Pine tree Cold places
Ponweed Water
Date palm Desert

Additional activity

Choose the best a	nswer:		
a) New plants grow	v from		
roots	flower	seeds	[seeds]
b) Green plants ne	ed sunlight to mak	ke their	·
food	water	air	[food]
c) A mushroom tak	es its food from _		
living plants	human beings	dead plants	[dead plants]
d) Herbs are			
small plants wit	h short stems		
bushy plants wi	th many leaves an	d branches	
big plants with	hard stems		[small plants with short stems]
e) Trees are		·	
big plants with	hard stems		
climbing plants			
small plants wit	h short stems		[big plants with hard stems]
f) A pondweed is a	a plant that grows i	n	
hot dry places	water	soil	[water]
g) Pine trees have		·	
broad leaves			
thin needle-like	leaves		
flat leaves			[thin needle-like leaves]
h) Cactus is a	·		
	desert plant	mountain plant	[desert plant]
i) Which of the follo	owing is not a fruit	?	
water melon	rose	mango	[rose]
j) A potato is a	·		
fruit	seed	vegetable	[vegetable]







Matter

Objectives:

To know that everything on the Earth is made of matter.

To know matter is of many colors and shapes.

To identify the properties of the three kinds of matter

To know that matter can be a solid, liquid, or gas.

To identify the properties of the three kinds of matter.

Teaching strategy:

Ask: Name some living and non-living things in your garden. Explain that everything on the Earth is made up of matter.

Point to different objects in the classroom. Ask students to name them.

Explain that matter comes in different sizes and shapes.

Ask students to feel some things.

Explain that matter can be smooth or rough, hard or soft, etc.

Place an ice cube in a saucer on your desk.

Show it to the students. After a while, light a candle and allow it to burn for some time.

Ask: What has happened to the ice cube?

What has happened to the candle?



Explain that matter changes.

Explain that matter is a non-living. It's host is what brings it to life.

Show students some solid objects.

Press them, knock them on the table.

Explain that a solid is hard. A solid has a fixed shape.

Show students some liquids.

Touch the liquid. Put some water in a cup and shake the cup. Rub some water between your fingers.

Explain that a liquid is not hard. It has no fixed shape and that it can flow.

Fill some air in a balloon.

Press the balloon. Release the air from the balloon.

Light a candle; blow it out. Show the direction of the smoke.

Explain that a gas is not hard. It has no fixed shape. A gas can move from one place to another.

Answers				

	• • • • • • • • • • • • • • • • • • • •		
1. a) the Earth	b) matter	c) shapes, colours	d) non-living

2. Bird, flower, tree, starfish, House, fish, cat, Snake, Umbrella, Rope, Balloons, Pencil

3 3	١٧	h) NI	c) N	4) N	۵) V	f) V	a۱V	h) N
J. a	<i>)</i> I	<i>U)</i> IN	C) IN	u) iv	<i>⊏)</i> ।	1 <i>)</i> 1	y)ı	11) 15

4. Table Milk AirStone Water SmokeBrick Mango juice Steam

Additional activity

Choose the best answer:

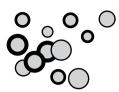
a) All things	on Earth ar	e made up of	
wood	stones	matter	[matter]

b) Which one of the following is a non-living thing?

A flower A stone A bird [A stone]

Unit 4 Matter

c) A solid				
is hard and ha	as a fixed sha	ре		
has no fixed s	hape and it c	an flow		
is not hard and	d can move f	rom place to p	lace	[is hard and has fixed shape]
d) When ice is he	eated it melts	to form a		
liquid	gas	solid	[liquid]
e) Sand is a				
solid	liquid	gas	[solid]
f) Milk is a				
solid	liquid	gas	[liquio	[[
g) When water is	s cooled it fre	ezes to form _		
ice	ice-cream	jelly	[ice]	
h) Smoke is a				
solid	liquid	gas	[gas]	
i) When a liquid i	is heated it tu	rns into a		
solid	liquid	gas	[gas]	
j)	_ cannot char	nge their shap	e easily	<i>'</i> .
Solids	Liquids	Gases	[Solid	ds]







Heat and light

Objectives:

To know that light helps us see things

To know that the Sun gives heat and light to the Earth

To know the importance of heat

To know that sunlight is made up of seven colours

To know that light can pass through transparent objects

To know that light cannot pass through opaque objects

Teaching strategy:

Ask: Can we see in the dark? What helps us see in the dark?

Explain that light helps us see.

Ask: Where does light on Earth come from?

Explain the importance of sunlight.

Explain that the Sun provides both heat and light.

Ask: If there are other examples of things that give out both heat and light.

Ask: what gives out only heat? Ask: what gives out only light? Ask: why do we need light? Ask: why do we need heat?

Ask: When do you see a rainbow?

Draw a rainbow on the board. Write the names of the seven colours.

Unit 5 Heat and light

Make a colour wheel. Cut a round disc from a card paper. Draw seven parts then colour them with the rainbow colours. Push a pin through the centre and spin it, so that the disk looks white.

Answers to	Activities in Unit 5
1. a) N b) N	c) Y d) Y
e) N f) Y	g) Y
3. a) violet	b) indigo
c) blue	d) green
e) yellow	f) orange
g) red	
4. a) air	a) wood
b) water	b) cardboard
c) glass	c) rubber
5. a) candle	b) fire
6. a) Sun	b) bulb
Additional	a a tivitu
Additional a	activity
Choose the be	est answer:
a) The Sun giv	res us
heat and so	pund



h) Which one of	the following gi	ves off light only?	
A torch	A fire	The Sun	[A torch]
i) We do not nee	ed heat		·
to keep warm	1		
to cook our fo	ood		
to see things	in the dark [to se	ee things in the darl	k]
j) Which one of	the following do	es not give off heat	?
A candle	A fire	A torch	[A torch]







Air

Objectives:

To know that air is everywhere

To identify the uses of air

To know that air helps things to burn

To know that wind helps things to move

To know that a strong wind is called a storm

Teaching strategy:

Ask students to move a piece of paper up and down.

Ask: What do you feel? Can you see anything?

Fill a balloon with air.

Ask: Can you see anything inside?

Release air from the balloon.

Ask: What is coming out?

Explain that air is all around us.

Explain that we can feel air but we cannot see it.

Ask: Is it hot or cold today?

Explain that hot and cold air affects the weather.

Put some ice cubes in a glass tumbler. Show students the drops of water that have condensed outside.

Ask: Where has this water come from?



Explain the presence of water vapours in the air and the formation of clouds and rain.

Ask: What do we breathe in? Why do we breathe? Do plants breathe? Explain the importance of air for respiration.

Ask: Where do insects, birds, and aeroplanes fly?

What do we fill in the balloons and tyres?

Explain the uses of air.

Light a candle then cover it, so that there is no air around the flame.

Ask: Why did the candle go out? Explain that air helps things burn.

Ask: What is wind? What is a storm? Explain how wind helps things move.

Teach students to make a paper windmill.

Take a square piece of glazed paper.

Cut along the dotted lines. Fold every alternate corner towards the centre and poke a pin through them. Push the pin through a thin stick. Blow through the flaps of the windmill. It will start turning round. Explain that air helped the windmill move.

Answers to Activities in Unit 6 b) yes

d) no

b) fly in air d) to burn

f) a storm

1. a) yes

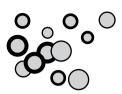
c) no e) yes 2. a) need air

> c)with air e) wind

Additiona Choose the	•		
a)	is all ar	ound us.	
Water	Air	Sand	[Air]
b) Air is mad	e up of	·	
water	gases	solids	[gases]

Unit 6 Air

c) When the ai	r is warm we	·	
feel cold	feel hot	shiver	[feel hot]
d) All living thin	ngs need	and wate	r to live.
sun	moon	air	[air]
e) A strong win	d is called		
wind	a storm	breeze	[a storm]
f) A fish breath	nes air from	·	
water	air	land	[water]
g) Drops of wa	ter in the air make		
ice	clouds	wind	[clouds]
h) All living thir	ngs need air to	·	
swim	move	breathe	[breathe]
i) We can feel	air when it is	·	
flowing	moving	raining	[moving]
j) We fill balloo	ns and tyres with_		
water	air	petrol	[air]







The Sun and Stars

Objectives:

To know that we can see the Sun in the daytime

To know that the Sun is very far from the Earth

To know that the Sun is a big ball of hot, burning gases

To know that the Sun gives heat and light to the Earth

To know that stars are big balls of burning gases

To know that the Sun is a star

Teaching strategy:

Draw the Sun on the board.

Explain that the Sun gives of heat and light.

Ask: When can we see the Sun?

Explain that the Earth gets heat and light from the Sun.

Draw a picture of the night sky.

Ask: When do we see stars? What is a star?

Explain that stars are big balls of burning gases.

Ask: Why do stars seem small?

Explain that stars are very far away.

Explain that the Sun is a star.

Unit 7 The Sun and Stars

Ask: Why can we feel the heat and see the light of the Sun? Explain that the Sun is the nearest star to the Earth.

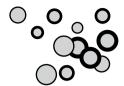
Ask students to draw the sky in the daytime and at night.

Answers to Activities in Unit 7

- 1. a) Sun
- b) far
- c) gases
- d) light
- e) stars
- 3. a) no
- b) no
- c) yes
- d) no
- e) yes







The Moon

Objectives:

To know what the Moon is

To know that the Moon is close to the Earth

To know that the Moon does not have its own light

To know that the Moon shines because of sunlight

To know that the Moon moves round the Earth once evey to 28 days.

To know that the changing shapes of the Moon are due to it's movement round the Earth.

To know that there is no life on the Moon

To know that things on the Moon have no weight

Teaching strategy:

Draw the night-time sky with the Moon and stars.

Ask: When do we see the Moon?

Explain that the Moon is close to the Earth.

Ask: Does moonlight feel hot?

Explain that the Moon does not have its own light. It shines because of

sunlight falling on it.

Ask: What is the shape of the new Moon?

When do we see the full Moon?

Explain that the Moon moves around the Earth in 28 days and as the

Moon moves we can see the shapes of the Moon.

Draw the shapes of the Moon on the board.

Ask: Does anyone live on the Moon?

Explain that astronauts have been on the Moon. They know that nothing can live on

the Moon because there is no air.

Unit 8 Moon

Show students pictures of astronauts. Explain that they have to wear special suits

Ask: Have you seen pictures of astronauts on the Moon?

Ask: What do they seem to be doing?

because there is no air or gravity on the Moon.							
Answers to	Activities in	unit	8				
1. a) yes	b) no						
c) no	d) no						
e) yes							
3. a) water	b) living						
c) Sun	d) Earth	e) nig	ıht				
Additional a	ctivity						
Choose the be	st answer:						
a) The Sun is a	big ball of						
rubber	air		hot gases	[hot gases]			
b) We can see	the Sun						
at night	in the daytim	e e	on a cloudy day	[in the day time]			
c) We can see	stars in the sky	/					
at night	in the day tin	ne i	n the afternoon	[at night]			
d) The Sun is _							
a moon			a planet	[a star]			
e) The Moon is	i		_ the Earth.				
bigger than	ger than smaller than equal in size to [smaller than]						
f) The Moon _	f) The Moon light of its own.						
has	does not hav	e :	sometimes has	[does not have]			
g) We can see the Moon when the throws light on it.							
Earth	Sun		star	[Sun]			
h) We can see the shapes of the Moon at different times of the							
day	night		month	[month]			
i) How far is the Moon from the Earth?							
Very far away Very close At the same distance as the Sun.							
[Very close]							
j) The Earth gets heat and light from the							
Sun and the	Moon stars		Sun	[Sun]			







The Earth

Objectives:

To know that the Earth is a planet

To know that the Earth gets heat and light from the Sun

To know that the Earth has land, air, and water

To know that 3/4 part of the Earth is covered with water

To know that the Earth turns round the sun once every day

To know that the Sun rises in the east and sets in the west

To know that at midday the Sun is over our heads

Teaching strategy:

Show the students a globe. Explain that the Earth is round.

Show the continents and oceans.

Explain that 3/4 part of the Earth is covered with water.

Ask: What is land made up of?

Explain the types of rocks and the formation of soil.

Ask: Where do earthworms live? Where do plant roots grow?

Explain that living things live in the soil.

Ask: When do you wake up? When do birds and animals wake up?

How do we know it is morning?

Explain the formation of day and night with the help of a globe and a

lamp representing the Earth and Sun respectively.

Show that the Earth turns on its axis once in 24 hours.

Explain that it is not the Sun rising or setting but that it appears to be so

because the Earth is turning.

Explain that at midday the sun is over our heads.

Unit 9 The Earth

Answers to Activities in Unit 9

- 1. a) big
- b) Sun
- c) planet
- d) Sun
- e) east
- 3. a) morning b) evening

 - c) midday
- d) East
- e) West



Additional activity

Choose the best answer:						
a) The Earth is like a big						
ball	ship	plate	[ball]			
b) The Earth is a						
star	planet	moon	[planet]			
c) The Earth gets heat and light from the						
Moor	n stars	Sun	[Sun]			
d) The Earth goes round the				_ in ar	oval path.	
Moor	n stars	Sun	[Sun]			
e) The Sun rises in the						
North	n South	East	West	[Eas	st]	
f) The Sun sets in the						
North	n South	East	West	[We	st]	
g) As the Earth spins, the side that faces the Sun has						
day	night	evening	[day]			
h) The S	Sun is a	·				
star	moon	planet	[star]			
i) At midday the Sun is						
on our left over our heads		in front	of us	[over our heads]		
j) The Ea	arth has				<u></u>	
land, water, and air			only land and water			
only land and air			[land, water, and air]			

Sample lesson plan

Unit 1: Living things

cuttings and charts of Students can explain the meaning of the word science, and are able to differentiate between pictures of living and and Q,4 (a), (b), (c). worksheets for Q.1 Resource material science, placard living and non-living things by observation. non-living things Teacher' evaluation Discussion: 20 min Discussion: 20 min Plan activity time knowledgw: 5 min knowledgw: 5 min Q/ Ans: 10 min Q/ Ans: 10 min A tivity: 5 min A tivity: 5 min Previous Previous a way of finding between things that science is To understand To defferntiate by observation things out skills knowledge Homework of observation ware of what Q.2, and 3 the meaning To know the objectives children a To make science means Time 40 min 40 min Assessment tasks Ex. 1 and 4 to be done in the class Differences non - living living and Defining Science between science things. Topic

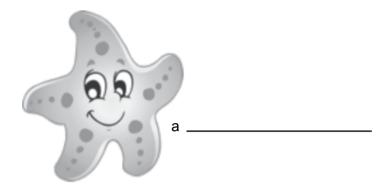


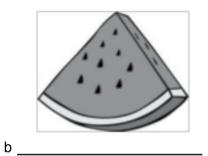
1. Answer the following questions:

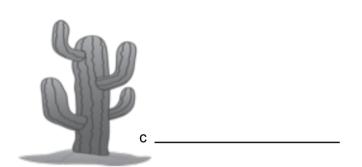
a) What is science?						
b) What are insects?						
c) What are wild animals? How do they move?						
d) What are useful plants?						
e) What are the kinds of matter?						
2. Fill in the blanks:						
a) An elephant is than a mouse. (bigger)						
b) A whale is a (water animal)						
c) Green plants can make their own (food)						
d) A gas can from place to place. (move)						
e) Light can pass through water, air and (glass)						
f) Drops of in the air make clouds. (water)						
g) Stars are big balls of (hot gases)						
h) The Moon has no or water. (air)						
i) The Earth goes around the (Sun)						



3. Name the following:

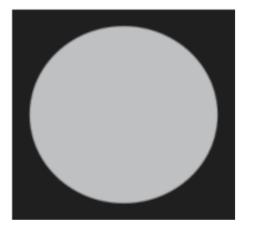








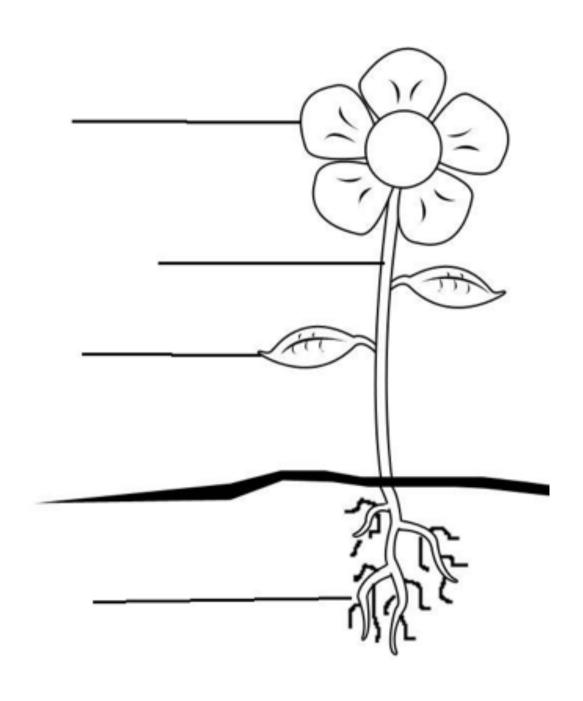




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4. Label the following:





- 1. a) Science is the study of the world using our senses.
 - b) Insects are very small animals.
 - c) Wild animals live in the forest. They walk and run. Some of them climb.
 - d) Useful plants are plants that give us fruits or flowers or wood.
 - e) Matter can be solid, liquid or gas.
- 3. a) Star fish
 - b) Water melon
 - c) Cactus
 - d) Sheep
 - e) New moon
 - f) Full moon
- 4. Flower, stem, leaf, root

Test Answers:

- 2. a) stone b) football c) horse d) tortoise e) jelly
- 3. a) Sea horse b) Duck c) Bee
- 4. a) small b) insect c) a cart d) forest
- 5. All of them
- 6. a) T b) F c) T
- 7. a) liquid b) solid c) gas
- 8. Table Milk Air

Stone Water Smoke

Brick Mango juice Steam

- 9. a) The Sun b) A Candle c) Fire
- 10. All of them.
- 11. a) air b) clouds c) storm
- 12. a) at night b) in the daytime c) from the Sun d) bright light
- 13. a) New Moon b) Half Moon c) Full Moon
- 14. a) We can see the moon at night
 - b) The Moon is close to the Earth
 - c) The Moon has no air
 - d) The Moon has no water
 - e) No one lives on the Moon
- 15. a) F b) F c) T d) F

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