

DELHI MODERN PUBLIC SCHOOL

CLASS 6TH

SUB: SCIENCE

TOPIC:LIVING AND NON LIVING

DAY 1

INTRODUCTION

LIVING THINGS : Living things are things that are alive.Animals and plants are living things.They can grow,move,need food and can feel changes around them

EXAMPLES: Plants and animals

NON LIVING THINGS:Non living things are things that are not alive.They do not move.they do not grow.They do not need food .

EXAMPLES:Chair ,television,car etc

CHARACTERISTICS OF LIVING THINGS

1.GROWTH

2.FOOD AND NUTRITION

3.STRUCTURAL ORGANISATION

4.MOVEMENT

5.EXCRETION

6.RESPONSE TO STIMULI

7.REPRODUCTION

8.RESPIRATION

ACTIVITY: IS ROBOT LIVING OR NON LIVING?GIVE REASONS AND FAIR IT.

DAY 2

GROWTH

Growth is increase in size of an animal or vegetable body(plants) over time.you must have observed the difference in your height now and when you were born.It means that you have growth. Growth stops over a certain period of time.

HUMAN BEINGS GROW FROM BABIES TO ADULTS,PUPPIES CECOME DOGS AND SEEDS GROW INTO BIGGER PLANTS.

FOOD AND NUTRITION

All living organisms need food for survival .The food provides them energy for growth and development

Plants prepare their own food by the process of photosynthesis.Non living things do not eat or prepare their food

STRUCTURAL ORGANISATION

Living organisms are made up of cells.Cell is the structural unit of life.Living organisms can be unicellular or multicellular. Unicellular organisms are those that are made up of a single cell.EXAMPLES ARE AMOEBA,YEAST ,ALGAE AND BACTERIA.

Multicellular organisms are those that are made up of two or more cells.EXAMPLES ARE PLANTS,ANIMALS,HUMAN BEINGS.

ACTIVITY:GO THROUGH THE TOPICS GIVEN ABOVE IN YOUR BOOK ,UNDERLINE IMPORTANT DEFINITIONS AND EXAMPLES

REFER TO PART A IN YOUR TEXT BOOK AND TICK THE CORRECT ANSWER ON TEXT BOOKS

1.MICROSCOPE

2.RESIN

3.BOTH A AND B

4.LEAVES

5.PHOTOSYNTHESIS

6.RESPIRATION

7.PAPER

8.FROG

DAY 3

MOVEMENT

Any motion in a part of body or whole body is known as movement. Movement can either be inside or outside your body. When you raise your hand, the movement is external. The movement of blood inside the body is internal movement.

EXCRETION

The process of removal of waste from our body is known as excretion. Humans excrete waste such as sweat, urine, carbon dioxide (through nose). Plants excrete wastes by shedding body parts i.e. dropping old leaves and they release oxygen as a waste product.

REPRODUCTION

The process of producing offspring by living organisms is reproduction. Humans give birth to babies and animals to young ones. Some organisms reproduce by producing eggs known as hatching egg hens, birds, frogs etc.

Plants reproduce through seeds. They produce seeds inside fruits. These seeds when sown produce new plants.

LIFE SPAN : The number of years an organism lives.

ACTIVITY: REVISE THE ABOVE TOPICS FROM YOUR TEXTBOOKS. NOTE DOWN IMPORTANT POINTS ON YOUR FAIR NOTEBOOKS

REFER TO PART B IN YOUR BOOKS AND FILL IN THE BLANKS ON TEXTBOOK

1. CELLS

2. PLANTS

3. AUTOTROPHS

4. EXCRETED

5. STIMULI

DAY 4:

RESPONSE TO STIMULI

Anything that causes a living organism to react is called stimulus (plural is stimuli). Stimuli can be internal or external. Example is holding a hot plate we fling hand away from it.

RESPIRATION

The process of producing energy from absorbed food material by taking in oxygen and giving out carbon dioxide. Oxygen required is obtained from air by the process of breathing.

READ THE TWO SUBTOPICS CAREFULLY FROM YOUR BOOK. MARK IMPORTANT POINTS AND DO PART C AND D ON YOUR BOOKS

REFER TO PART E IN YOUR BOOK AND MARK TRUE OR FALSE ON YOUR BOOKS

- 1.FALSE
- 2.TRUE
- 3.FALSE
- 4 TRUE
- 5.FALSE
- 6.FALSE
- 7.FALSE
- 8.TRUE
- 9.TRUE
- 10.FALSE

DAY 5

SPECIES

Species is a group of similar individuals that are able to reproduce.for eg dogs are similar to other dogs.There are different kinds of dogs but they have same body parts and they eat same kind of food.so dog is a species.

READ ALL THE DEFINITIONS THOROUGHLY AND DO PART I ON YOUR OWN .DO IT ON YOUR FAIRNOTEBOOKS

REFER TO PART G IN YOUR BOOK AND WRITE DOWN THE ANSWERS ON YOUR FAIRNOTEBOOKS

1.REFER TO THE SUBTOPIC STRUCTURAL ORGANISATION AND WRITE DOWN THE ANSWER OF QNO1

2.Cloud is a non living thing that exhibits the characteristics of living things.It moves from one place to another like living things.Living organisms undergo metabolic reactions and clouds undergo some reactions due to charge present in them.

3.Animals can reproduce in two different ways which are

ASEXUAL REPRODUCTION

SEXUAL REPRODUCTION

Asexual reproduction involves one parent and produce offspring that are similar to each other and to parent eg plants and bacteria

Sexual reproduction involves two parents and produce offspring that are genetically different

DAY 6

ANS 4. Seeds contain high protein, starch and oil that helps in the early growth and development of a plant.

ANS 5 GROWTH IS A CHANGE OF PHYSICAL ASPECTS OF AN ORGANISM. Growth is cellular. Development is a progressive change and overall change in an organism. development is organizational.

DO QNO 6, 7 AND 8 ON YOUR OWN (CONSULT DICTIONARY FOR DIFFICULT WORDS)

DAY 7:

ANS 1. the various characteristics of living organisms which are more essential in distinguishing living from non living are

1. growth

2. excretion

3. movement

4. respiration

5. reproduction

6. response to stimuli

Define each of them in one line...the definitions are given above and draw the diagram along with it given on pg 77 (fig 7.1)

ANS 2: REFER TO EXCRETION GIVEN ABOVE

ANS 3: REFER TO RESPONSE TO STIMULI

ANS 4; REFER TO REPRODUCTION GIVEN ABOVE

ANS 5: In plants, waste products are removed by diffusion. Plants excrete oxygen, a product of photosynthesis. Plants get rid of water by transpiration. waste products are also stored in leaves which fall off.