

Student-s Name _____ Course Name Science Grade (2)

R - retain, D - delete, C - changed
Outcomes

R D C Changed Outcome

OUTCOMES	R	D	C	Changed Outcome
I THE PROPERTIES OF LIVING THINGS				
1. STRUCTURES UNIQUE TO LIFE Students will recognize some characteristics of living and non living things				
1 identify (by common name) the trees/plants found in the local area				
2 observe and record characteristics of selected trees/plants				
3 describe how trees/plants take in water and nutrients				
2. COMPOSITION Students will recognize the importance of soil, water, and air to living things				
1 measure parts of trees using standard and non-standard measurements				
2 determine the age of a tree by studying its bark and growth rings				
3 experiment to discover elements necessary for healthy plant growth				
4 infer past growing conditions by studying the growth rings of trees				

Student-s Name _____ Course Name Science Grade (2)

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II LIFE PROCESSES AND THE ORGANIZATION OF LIVING THINGS				
1. SYSTEMS Students will recognize the basis of classification - general similarities and differences among living organisms. Students will recognize that the human organism is the sum of interrelated systems				
1 develop criteria for classifying people according to their similarities and differences				
2 classify people according to established criteria				
3 identify the external body parts and know the function of each				
2. INTERACTIONS WITH THE ENVIRONMENT Students will explore the interdependence between living things and the environment, and the changes within individual organisms and communities				
1 explore the usefulness of trees as a part of the natural environment				
2 describe ways to conserve trees				
3. REPRODUCTION Students will recognize reproduction as a life process. Simple activities with seeds will introduce the concepts of				

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growth and development				
1 observe and record different stages of seed growth				
III POPULATIONS, ENERGY FLOW, CYCLES WITHIN ECOSYSTEMS				
4. COMPONENTS Students will be introduced to the concept of a community as a functional ecological unit. Students will compare and contrast natural communities with human-made communities				
1 study animals in captivity versus animals in their natural environment				
2 infer what the natural habitats of a selected zoo animal would be like				
IV. MATTER AND ITS PROPERTIES				
a. KINDS AND CHARACTERISTICS Students will understand that the physical properties may change when materials are subjected to different treatments.				
1 recognize solids, liquids and gases in the three states of matter				
2 identify common examples of solids, liquids and gases				

Student-s Name _____ Course Name Science Grade (2)

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3	observe and list the properties of each state of matter				
2.	PHYSICAL PROPERTIES Students will be involved in activities in which materials are subjected to treatments such as heating, freezing, cutting and bending to see how things change				
1	identify some of the common physical properties of objects or matter				
2	classify objects or matter according to common physical properties				
3	predict, observe and describe changes in properties of matter that might occur when materials are heated or cooled (thermal energy transfer)				
4	predict, observe and describe changes in properties of matter that might occur when water is added				
5	distinguish between changes in matter that can not be readily reversed and those that can be reversed				
6	discover that many materials can be recycled and used again, sometimes in different forms				
VIII THE EARTH AND ITS ATMOSPHERE					
5.	PROPERTIES OF THE EARTH: MATERIALS AND FEATURES Students will understand that there are different types of				

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	rocks which are made up of different materials. Students will explore the idea that many of the common materials we use every day come from the earth				
1	collect and classify rocks according to their different attributes (color, shape, texture, etc)				
2	identify a given rock in a collection based on previous observation and comparison				
3	describe the textures of given rocks				
4	compare the hardness of rock samples				
5	predict and discover which rocks can be used as writing tools				
6	compare the masses of rocks				
7	demonstrate how rocks can change over time				
8	identify the various ways rocks are used by society				
4.	BIOLOGICAL PROCESSES Students will know that dinosaurs were animals that lived long ago and that no dinosaurs are alive today				
1	explain that fossils are the remains of plants and animals that lived long ago				
2	identify different types of fossils				

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3	describe how fossils were formed				
4	identify the tools used to uncover dinosaur bones				
5	explain, through simulation, procedures used by paleontologists				
6	illustrate findings of the simulation				
7	explain that dinosaurs were animals that lived long ago but are now extinct				
8	conclude that paleontologists use estimation and prediction skills to determine what dinosaurs may have looked like				
9	establish criteria for classifying dinosaurs				
10	classify dinosaurs according to established criteria				
11	discover the importance of fossils and buried bones				
6.	ATMOSPHERIC PROCESSES Students will understand that weather changes over short and long periods of time and that observations of weather can help us predict the weather				
1	compare changes in air temperature over a period of time				
2	recognize and show the presence of moving air				
3	conclude that wind is air in motion				

Student-s Name _____ Course Name Science Grade (2)

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4	compare air temperature at various sites using a thermometer				
5	measure rainfall using a home-made rain gauge				
6	recognize the potential hazards of the sun-s energy and the importance of protecting ourselves from the sun				
IX THE EARTH AND ITS PLACE IN THE UNIVERSE					
1.	The Earth and its Place in the Universe Students will understand that the familiar extraterrestrial bodies with which they are most familiar (moon, sun, stars) are part of a larger system in space. They acknowledge the sun as the source of energy (light and heat) for the earth. Students will understand the rising and setting of the sun as the causes of day and night.				
1.	identify the earth, moon and sun as part of a larger solar system				
2.	depict the location of the moon, sun, and stars in relation to the placement of the earth in the solar system				
3.	collect and record information to compare the moon, sun, stars and earth				
4.	explain that the sun is the source of energy (heat & light) for the earth				

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5. demonstrate how surface temperature decreases with distance from a heat source				
6. record the (outside) temperature several times during a day. Discuss the results and their relationship with the position of the sun				
7. demonstrate the causes of night and day using a model				
X FORCES AND THEIR EFFECTS				
2. CAUSES OF MOTION Students will explore forces as simple pushes and pulls. They will examine forces in nature (gravitational and magnetic)				
1. identify different ways (including the use of air and magnets) to push and pull objects				
2. describe the different ways in which air can make things move				
3. investigate ways in which air can support mass				
4. explain that gravity is a force acting downward on an object				
5. investigate weightlessness and its implications				
6. observe how magnets can be used to move different materials				

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XI ELECTRICITY AND MAGNETISM				
4. FIELDS Students will know that a magnet can move some things without touching them. Students will also know that things near the earth fall to the ground unless something holds them up				
1. use magnets to conclude that magnetic forces can either attract or repel				
2. observe and describe the patterns made when magnets move particles such as steel wool or iron filings				
3. through observations of falling objects describe the effect of gravity on the path of an object				
4. through discussion, investigate the effects of gravity on everyday life				
5. understand that there is a limit to the earth-s gravitational force				
XII LIGHT AND SOUND				
3. LIGHT: CHARACTERISTICS AND MODELS Students will investigate shadows, color, and reflection				
1. distinguish between natural and artificial light				

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2. discover which materials will allow light to pass through and which materials partially or fully block light				
3. discover that objects create shadows by blocking light				
4. investigate ways to move and change shadows in sunlight				
5. discover how to make shadows disappear				
6. identify materials that reflect light				
7. explore ways to change the direction of light				