**Lower Elementary Science Class Plan**

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| **Week** | **Topic** | **Learning Goal** | **Interactive Activity** |
| 1 | Introduction to Living Things | Identify the characteristics of living vs. non-living things. | Living/Non-living Hunt: Students search around the classroom/schoolyard for items and sort them into “living” and “non-living” baskets. |
| 2 | The Human Body – Major Parts | Recognize main body parts and their functions. | Body Outline Art: Students work in pairs to trace each other on paper, labeling major body parts. |
| 3 | The Senses | Learn about the 5 senses and how they help us. | Sense Stations: Rotate through tasting (safe snacks), smelling (spices), touching (mystery bags), listening (sound recordings), and seeing (picture puzzles). |
| 4 | Bones & Muscles | Understand the role of the skeleton and muscles in movement. | Move Like Me: Teacher calls out an action, students act it out, then identify which body parts/bones/muscles were used. |
| 5 | The Heart & Lungs | Learn how heart and lungs work together. | Heartbeat Investigation: Take resting heart rate, then jump for 1 minute and retake to compare. |
| 6 | The Brain & Nerves | Discover how the brain sends signals to the body. | Reaction Time Test: Drop a ruler and measure how fast students catch it. |
| 7 | Healthy Habits – Food & Exercise | Understand balanced eating and active living. | Build-a-Plate: Use paper cutouts of foods to create a balanced meal on a plate template. |
| 8 | Healthy Habits – Hygiene & Safety | Learn about staying clean and safe. | Glitter Germ Experiment: Glitter on hands to show how germs spread without proper handwashing. |
| Week | Topic | Learning Goal | Interactive Activity |
| 9 | What Plants Need to Grow | Identify sunlight, water, soil, and air as essentials. | Planting Seeds: Each student plants a bean seed in a cup and observes over time. |
| 10 | Parts of a Plant | Learn about roots, stems, leaves, flowers. | Plant Dissection: Examine a flower and label its parts. |
| 11 | Photosynthesis – How Plants Make Food | Understand basic idea of plants making food from sunlight. | Leaf Sunlight Test: Place a leaf partly covered in foil and compare after a few days. |
| 12 | Seeds & Life Cycle | Learn about seed germination and plant life stages. | Seed Sorting: Compare seeds of different shapes and sizes, match them to pictures of plants. |
| 13 | Trees & Their Importance | Understand roles of trees in oxygen, shade, and homes for animals. | Leaf Rubbing Art: Collect leaves and create crayon rubbings. |
| 14 | Fruits, Vegetables & Edible Plants | Identify plants we eat and their parts. | Tasting Party: Try safe samples of fruits, roots, leaves, and seeds. |
| 15 | Plant Defenses | Learn how plants protect themselves (thorns, toxins, camouflage). | Guess the Plant: Students match pictures of plants to their defense mechanism. |
| 16 | Protecting Plants & the Environment | Understand importance of caring for nature. | Class Garden Pledge: Create posters about protecting plants and keeping the earth green. |

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| 17 | Animal Groups | Classify animals (mammals, birds, reptiles, amphibians, fish). | Animal Sorting Game: Use cards to sort animals into their groups. |
| 18 | Animal Life Cycles | Learn about egg-to-adult stages in different animals. | Frog/Butterfly Craft: Create a paper wheel showing each stage of a life cycle. |
| 19 | Animal Habitats | Identify where animals live (forest, desert, ocean, etc.). | Habitat Diorama: Build mini-habitats in shoe boxes. |
| 20 | Food Chains | Understand how plants and animals depend on each other for food. | Food Chain Tag: Assign roles (sun, plant, herbivore, carnivore) and act out energy transfer. |
| 21 | Adaptations | Learn how animals adapt to survive. | Animal Dress-Up: Students create or wear “adaptations” using simple props. |
| 22 | Migration & Hibernation | Understand seasonal animal behaviors. | Migration Map Game: Use string to trace animal migration routes on a world map. |
| 23 | Pets & Domesticated Animals | Learn about caring for pets and farm animals. | Pet Care Chart: Students design a care plan for a chosen animal. |
| 24 | Endangered Animals & Conservation | Understand why some animals are at risk and how to help. | Class Wildlife Pledge: Create a mural showing ways to protect animals. |

\*Each child needs to bring a shoe box and a clear 2L pop bottle