

## K-2 Science

### Animal Characteristics

**Lesson Objective:** The student will identify three different characteristics of animals.

**Subobjective 1:** The student will categorize animals based on diet.

**Subobjective 2:** The student will categorize animals based on movement.

**Subobjective 3:** The student will categorize animals based on coverings.

### Animal Habitats

**Lesson Objective:** The student will identify and describe various animal habitats and place animals in a habitat that they create.

**Subobjective 1:** The student will identify habitats of mammals, reptiles, amphibians, birds, and fish.

**Subobjective 2:** The student will create a habitat in class.

### Arctic Animals

**Lesson Objective:** The student will explore Arctic animals.

**Subobjective 1:** The student will gain knowledge about the Arctic region.

**Subobjective 2:** The student will identify characteristics of animals living in the Arctic region.

**Subobjective 3:** The student will be able to relate the survival needs of animals living in the Arctic region.

### Balance

**Lesson Objective:** The student will define "balance."

**Subobjective 1:** The student will observe ways balance is used in the world.

**Subobjective 2:** The student will observe how weight can affect balance.

**Subobjective 3:** The student will use a balance scale.

### Birds

**Lesson Objective:** The student will classify birds.

**Subobjective 1:** The student will identify the characteristics of a bird's habitat.

**Subobjective 2:** The student will draw a diagram of a bird and label its parts.

**Subobjective 3:** The student will identify the differences between an herbivore, omnivore, and carnivore.

### Changes in Weather

**Lesson Objective:** The student will describe the changes in weather in quantitative measures, such as temperature, wind direction, wind speed, and precipitation.

**Subobjective 1:** The student will match and label weather changes.

## **Classifying Resources as Natural or Man-made**

**Lesson Objective:** The student will classify resources as natural or man-made.

**Subobjective 1:** The student will identify the vocabulary words: environment, natural resources, and man-made resources.

**Subobjective 2:** The student will identify natural resources.

**Subobjective 3:** The student will identify man-made resources.

## **Combining and Separating Mixtures**

**Lesson Objective:** The student will describe how mixtures can be made by combining solids, liquids, or gases and how they can be separated again.

## **Comparing Plants and Animals**

**Lesson Objective:** The student will distinguish between plants and animals.

**Subobjective 1:** The student will describe the differences between plants and animals, such as how they eat and move.

**Subobjective 2:** The student will compare and contrast the traits of plants and animals.

## **Environment and Conservation**

**Lesson Objective:** The student will explore positive and negative effects on the environment.

**Subobjective 1:** The student will classify natural, human, and capital resources.

**Subobjective 2:** The student will identify ways humans negatively affect the environment.

**Subobjective 3:** The student will describe the depletion of natural resources.

**Subobjective 4:** The student will identify ways to conserve resources.

**Subobjective 5:** The student will see the importance of recycling.

## **Five Senses**

**Lesson Objective:** The student will identify the five senses and describe their functions.

**Subobjective 1:** The student will explore and identify objects using the five senses.

**Subobjective 2:** The student will learn the following vocabulary words: see, hear, taste, smell, and touch.

## **Functions of the Human Body Systems**

**Lesson Objective:** The student will learn how the human body functions.

**Subobjective 1:** The student will learn the major organs of the body and their functions.

**Subobjective 2:** The student will learn the systems that run the body.

**Subobjective 3:** The student will learn some ways to take care of his/her body.

## Gravity

**Lesson Objective:** The student will identify gravity and what happens without it.

**Subobjective 1:** The student will identify what gravity is and how it works.

**Subobjective 2:** The student will recognize examples of what would happen without gravity.

## Habitats and Needs of Humans and Animals

**Lesson Objective:** The student will demonstrate an understanding of basic human, and animal needs of food, water, shelter, and space.

**Subobjective 1:** The student will identify the basic needs of humans.

**Subobjective 2:** The student will identify the basic needs of other animals.

## Herbivores, Carnivores, and Omnivores

**Lesson Objective:** The student will be able to identify herbivores, carnivores and omnivores.

**Subobjective 1:** The student will identify the physical characteristics of herbivores, carnivores, and omnivores.

**Subobjective 2:** The student will identify the physical characteristics of herbivores, carnivores, and omnivores.

## Life Cycle of a Pumpkin

**Subobjective 1:** The student will be able to identify the structures of a pumpkin plant.

**Subobjective 2:** The student will sequence the stages of the pumpkin life cycle.

## Ocean Animals

**Lesson Objective:** The student will name different animals that live in the ocean.

**Subobjective 1:** The student will describe ocean habitats.

**Subobjective 2:** The student will describe what ocean animals eat, what they do, and what sounds they make.

## Phases of the Moon

**Lesson Objective:** The student will identify the four main phases of the Moon.

**Subobjective 1:** The student will construct a model to analyze the movement of the Moon in relationship to the Earth.

**Subobjective 2:** The student will determine the part of the Moon that is visible during each of the four main phases.

## Plants as Living Things

**Lesson Objective:** The student will identify the basic needs of most plants.

**Subobjective 1:** The student will describe the functions of plant parts, including leaves, stems, flowers, and roots.

**Subobjective 2:** The student will describe the characteristics of different plant habitats.

**Subobjective 3:** The student will compare different types of flowering plants and conifers.

## Pond Animals

**Lesson Objective:** The student will illustrate the complete metamorphosis of a butterfly.

**Subobjective 1:** The student will describe the metamorphosis of a frog.

**Subobjective 2:** The student will draw and label the life cycle of an insect and amphibian.

## Seasons and Weather

**Lesson Objective:** The student will identify the seasons and different types of weather.

**Subobjective 1:** The student will chart weather conditions over a period of days.

**Subobjective 2:** The student will describe the characteristics of different cloud types.

**Subobjective 3:** The student will predict weather based on cloud types.

**Subobjective 4:** The student will read a thermometer.

**Subobjective 5:** The student will explain how weather and seasons affect plants, animals, and humans.

**Subobjective 6:** The student will explain what causes the changes in seasons.

## Similarities and Differences in Animals

**Lesson Objective:** The student will observe and describe the similarities and differences among animals.

**Subobjective 1:** The student will compare and contrast how different animals grow, move, and change, as well as their body structures.

**Subobjective 2:** The student will describe how animals interact with their surroundings.

**Subobjective 3:** The student will explain the behaviors of certain animals.

**Subobjective 4:** The student will demonstrate how to care for a variety of animals.

**Subobjective 5:** The student will compare and contrast humans and animals.

## Skeletal System

**Lesson Objective:** The student will identify the parts of a skeleton and their functions.

**Subobjective 1:** The student will name the different parts of a skeleton.

**Subobjective 2:** The student will identify the functions of a skeleton's parts.

## The Sense of Taste

**Lesson Objective:** The student will explore the sense of taste.

**Subobjective 1:** The student will identify where the tongue senses different types of tastes.

**Subobjective 2:** The student will determine whether or not he/she can taste the object associated with a word.

**Subobjective 3:** The student will match and categorize items based on how they taste.

**Subobjective 4:** The student will collect data about the sense of taste and use that information to create a graph and answer questions.

## The Sense of Touch

**Lesson Objective:** The student will identify components of the sense of touch.

**Subobjective 1:** The student will discover how our sense of touch helps us in our daily lives.

**Subobjective 2:** The student will determine whether or not he/she can feel the object associated with a word.

**Subobjective 3:** The student will categorize items by how they feel.

**Subobjective 4:** The student will collect data about the sense of touch and use that information to create a graph and answer questions.

## Three States of Matter and Their Changes

**Lesson Objective:** The student will identify and evaluate the changes in states of matter due to heating and cooling.

**Subobjective 1:** The student will identify the three states of matter.

**Subobjective 2:** The student will identify changes in states of matter through observations.

**Subobjective 3:** The student will classify items according to their state of matter.

## Translucent, Transparent, and Opaque

**Lesson Objective:** The student will recognize the differences between opaque, transparent, and translucent objects.

## Uses and Conservation of Electricity

**Lesson Objective:** The student will gain a basic understanding of electricity.

**Subobjective 1:** The student will identify uses of electricity.

**Subobjective 2:** The student will identify ways to conserve electricity in the classroom and at home.

## Weather Tools and the Water Cycle

**Lesson Objective:** The student will be able to explain how to use simple weather tools such as a thermometer, a wind vane, and a rain gauge.

**Subobjective 1:** The student will be able to explain how the water cycle works.

## Worms

**Lesson Objective:** The student will identify characteristics of worms.

**Subobjective 1:** The student will identify the body parts of a worm.

**Subobjective 2:** The student will put the different stages in the life cycle of a worm in the correct order.

**Subobjective 3:** The student will determine if facts about worms and their senses are true or false.

**Subobjective 4:** The student will identify habitats of a worm.

**Subobjective 5:** The student will identify how worms interact with their environment and other animals.