

Lesson Plan Overview:

Critter Coverings

Content Areas:

- Science
- English
- Visual Arts

SOL's Covered:

- Science: K.1k, K.4c, 1.1c, 1.5b & c, 2.1a & b, 2.5a & b
- Visual Arts: K.2, K.3(2), K.5, 1.3(3), 1.5, 1.9, 2.4
- English: K.2g, K.3a, K.3d & f, K.10, 1.1d, 1.2a & b, 1.3b-d, 2.2 a & b

Post Visit Packet Available

SOL'S Covered in Packet:

- Science: K.1a & k, K.6a, K.7a, 1.1a, c & f, 1.5a-c, 1.7a, 2.1a, 2.5a-c
- Visual Arts: K.1, K.2, K.6, K.19, 1.5, 1.20, 2.8, 2.18
- English: K.2 b & e-g, K.3b & f, K.5a & c, K.6d, K10, 1.1d, 1.2a-c, 1.3d, 1.5 a-c, 1.12 a-c & g, 2.2a, b & d, 2.3a

Grade Level:

- K-2

Objectives:

The student will:

- List and identify different kinds of animals;
- Look at, describe and respond to various animal species;
- See and touch several examples of the types of skin coverings animals can have;
- Describe the differences in texture that animal skin has;
- Discuss differences between mammals, birds, reptiles and amphibians;
- Create a picture of an animal using texture rubbings.

Lesson:

This lesson involves a close examination of 4 different animals to help teach students about the kinds of skin covering animals can have and why.

Lesson Plan Overview:

Animal Diets and Adaptations

Content Areas:

- Science

SOL's Covered:

- Science: 2.1a-c, 3.1a & j, 3.4, 3.5b & c, 4.1a, 4.5a

Post Visit Packet Available

SOL's Covered in Packet:

- Science: 2.1a-c, 3.1a & j, 3.4, 3.5b & c, 4.1a, 4.5a
- English: 2.2a & b, 2.3 a & b, 2.9b & c, 2.12a, 3.1a & b, 3.2a, d & e, 3.7a, 3.9a & b, 3.11a, 4.1b, d & e, 4.2a & c, 4.6b, 4.8

Grade Level:

- 2-4

Objectives:

The Student will:

- List the three diet categories for animals;
- Understand the differences between predator and prey;
- Describe adaptations animals have acquired because of their diets;
- Investigate which category each mystery animal belongs to.

Lesson:

This lesson involves an in-depth discussion of animal diets and the adaptations needed for such diets. Terms such as carnivore, omnivore, herbivore, predator and prey will all be discussed while investigating which categories different animals belong to.

Lesson Plan Overview:

Happy Habitats and Enchanting Environments

Content Areas:

- Science
- English

SOL's Covered:

- Science: 3.6a & b, 3.9c, 4.5d, 5.6b
- English: 3.1a-c, 4.1b-d, 5.1a

Post Visit Packet Available

SOL'S Covered in Packet:

- Science: 3.6a & b, 3.9c, 3.10a & c, 4.5a & d, 5.6b
- English: 3.1b & c, 3.2a & d, 3.3, 3.6e, 3.9a & b, 4.1b & d, 4.2a-c, 4.6a-c, 4.8a-h, 5.1a & b, 5.3a-c & e, 5.8b-d & g
- Visual Arts: 3.11, 4.1, 5.3, 5.22

Grade Level:

- 3-5

Objectives:

The student will:

- Define a habitat and list its necessary requirements;
- Identify various environments;
- See animals that live in different types of environments;
- Locate where certain animals live on a globe or map;
- Discuss the diets of these animals as relates to their species and environments;
- Investigate the difference between man-made and natural environments
- Identify the difference between domesticated and wild animals.

Lesson:

This lesson involves a close examination of 4 kinds of animals from 4 very different environments to help teach students how animals live & survive in many diverse locations on Earth.

Lesson Plan Overview:

Animal Detectives

Content Areas:

- Science
- English

SOL's Covered:

- Science: 6.1a, 6.5f, 6.9a, LS.4a-d, LS.8b-d
- English: 6.1a, 6.2a & c, 7.1a-d, 8.1a & b

Post Visit Packet Available

SOL'S Covered in Packet:

- Science: 6.1a, LS.4a-c, LS.8b & c
- English: 6.1a, 6.2a & c, 6.3c & d, 6.5d & f-g, 6.6b & c, 7.1 a-c, 7.2a & b, 7.6a & f-g, 7.7a & c, 7.8b, 8.2a-f, 8.6a & d-e & g, 8.7b-c & e
- Visual Arts: 6.2, 6.4, 7.5, 7.11, 7.14, 8.2

Grade Level:

- 6-8

Objectives:

The student will:

- List the 7 taxonomic categories of all living things;
- Identify the 3 kingdoms;
- List and describe the 6 phyla;
- Discuss the characteristics of animals in the taxonomic class of chordata;
- Investigate the identities and class of unknown animals;
- See animals and discuss scientific information about the animal based on their class;
- Identify the requirements that all living things need to survive.

Lesson:

This lesson involves an in-depth discussion of animal taxonomy as relates to kingdom, phylum and class and the observation and interaction with 5 kinds of animals to better illustrate animal needs, commonalities and differences.

Lesson Plan Overview:

Selective Breeding and Natural Selection

Content Areas:

- Science
- English

SOL's Covered:

- Science: BIO.2b, BIO.8b, c & e
- English: LEP 4.3, 4.7 & 4.9

Grade Level:

- 9-12

Post Visit Packet Available

Sol's Covered in Packet:

- Science: BIO.2b, BIO.8b, c & e
- English: LEP 4.3, 4.7 & 4.9

Objectives:

The student will:

- Define natural selection, artificial selection, heredity and gene;
- Compare and contrast artificial and natural selection;
- Identify some examples of artificial selection;
- Discuss the guiding principles of artificial selection;
- Examine animals that have undergone artificial selection (as a species).

Lesson:

This lesson includes an in-depth discussion of artificial selection, specifically focusing on what the process is, the time it takes and the result on various animal populations. Throughout the lesson, students will contrast artificial and natural selection and develop their understanding of the ways in which populations change over time. Students will also observe some animals that exemplify artificial selection and will discuss benefits and detractors of artificial selection.