

HOOVER-JUNIOR- OFF-SITE LEARNING PACKET DAY 6

Instructor: Meredith Hoover

Date _____

Program/Class: Animal Science Class - Juniors - Off-site Learning Packet Day 6 Period 1-4

State Indicator/Competency:

- 1.3.1 Identify, classify, evaluate and select animal species and/or breeds.
- 1.3.5 Estimate the environment's carrying capacity and its impact on animal health.
- 1.6.1 Describe the adaptations and special senses (e.g., sight, hearing, smell, touch) of animals and how they contribute to animal behavior.
- 1.6.2 Describe and identify innate animal behavioral traits (e.g., protection, ingestion, homing, sleeping, grooming, elimination, sexual, care-giving, combative, evasive, breed differences).

Instructional Objective(s):

Students will be able to name the natural antifreeze that the wood frog uses to protect its cells with 100% accuracy.

Students will be able to list the characteristics of life the frog is missing when frozen with 80% accuracy.

Students will be able to state 3 things stop when the wood frog freezes with 100% accuracy.

Students will be able to state when a wood frog come back to life with 100% accuracy.

Students will be able to how a wood frog thaw outs out with 100% accuracy.

Method of Instruction:

Video and worksheet

Activities:

Students will be given the handout

Students will read the handout

Students will watch the frozen frog video

<https://www.youtube.com/watch?v=TYJv-wxwvLw>

Students will be directed to take notes during video

Students will complete the Worksheet and turn in the worksheet.

Frozen Frog- Is it alive?

Video: North American Wood Frog

<https://www.youtube.com/watch?v=TYJv-wxwvLw>



The North American Wood Frog's body will become frozen at the touch of an ice crystal. Most water inside the internal organs of the frog is removed and turned into solid ice around the frog. The cells inside the frog use a natural antifreeze to protect the cells from becoming destroyed when the frog freezes. When it is spring the frog thaws and resumes living and reproduces. The whole process is amazing and goes against the idea that there are certain characteristics of life.

HOOVER-JUNIOR LAB-Off-site Learning Packet Day 6 WORKSHEET

NAME: _____
CLASS: _____

DATE: _____

1. What is the natural antifreeze that the frog uses to protect its cells?

2. Check off the characteristics of life the frog is/are missing when frozen.
 - Made of cells
 - Interdependence (responds to stimuli)
 - Heredity
 - Metabolism
 - Evolve
 - Homeostasis
 - Reproduction
3. What 3 things stop when the wood frog freezes? _____

4. When does the wood frog come back to life? _____
5. How does the wood frog "thaw out?" _____

Closure:

Worksheet completed

Assessment:

Worksheet