



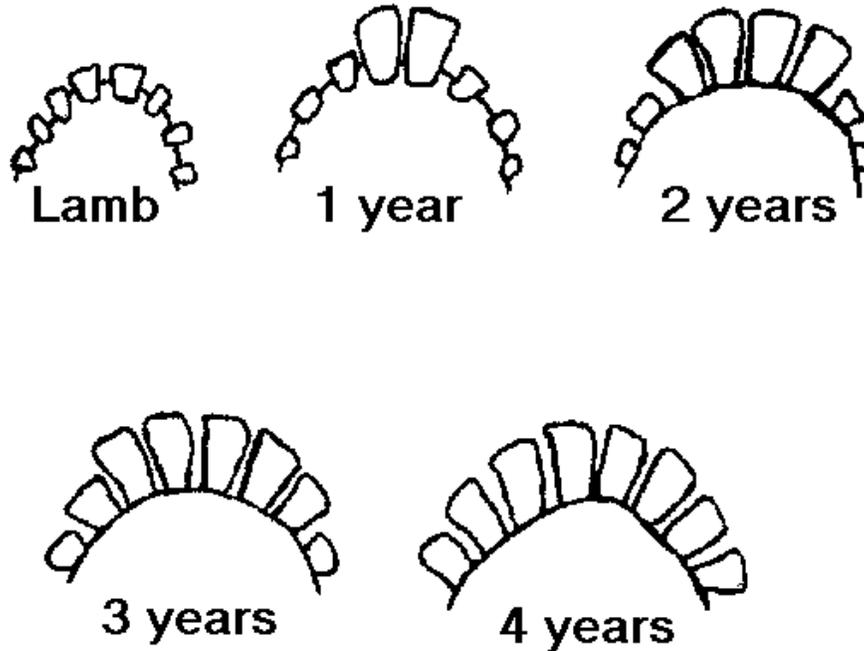
All About Sheep

Created by: IRRC	Date:
Subject: Science	Grade Level: 5 th
Time Required: 45-60 minutes	Standards: <u>To be included</u>

Overview	This lesson is a scaffolding lesson for the other sheep lessons, students will learn about wool, and look at a sheep skull (herbivores) compared to a coyote skull (omnivore).
Goal(s) & Objective(s)	<p>Students will be able to identify differences between herbivores (sheep skull compared to carnivores (coyote skull).</p> <p>Students will be able to explain the different forms of wool (raw, woven, washed & carded, felted, dyed, spun)</p> <p>Students will know how to tell the difference between fine and coarse wool.</p>
Materials	<ol style="list-style-type: none"> 1. Sheep skull 2. Coyote skull 3. Wool examples: raw, woven, carded, spun, dyed, and felted.
Teaching Activities: <i>Instructional Approaches/Strategies</i>	<p>Introduction:</p> <ol style="list-style-type: none"> 1. Sheep have been a big part of Idaho’s history for many years. In 1918, there were 2.6 million sheep in Idaho. That was six times the state’s human population. 2. Sheep provide many resources to humans: meat, wool, and lanolin. <p>Optional: watch or read “Life on the Range” videos: Frank Shirts Sheep or Noh Sheep Co. These videos are true stories of Idaho Sheep Ranchers. With students, discuss what they learned about sheep ranching in Idaho.</p> <p>Procedures</p> <ol style="list-style-type: none"> 1. Explain to students that they will be looking at wool today and the different ways it can be used. 2. Show the students what raw wool is (it is just shorn of the sheep; it has not been washed or carded.) 3. Show students the washed and carded wool. Discuss what differences they see: how do they feel, look, and smell different? 4. Discuss how sheep graze. Show them the skull- Note that sheep teeth influence

	<p>what they eat.</p> <ol style="list-style-type: none"> 5. The split lip allows sheep to pick the preferred leaves off of the plant. 6. The bottom front incisors are sharp like knives, and the back teeth grind the plants. 7. Tell them is prey and the next skull is a predator. Have them define and give characteristics of predator and prey. 8. Show them the coyote skull- What are the differences and similarities between the coyote and sheep skulls? <p>Tell students that when you are discussing predator vs. prey you are specifically talking about carnivores as the predator and an herbivore as the prey. Explain that carnivores can eat carnivores as well, which would make one the predator and one the prey. However for today's lesson, that is not the case. Then propose the following questions:</p> <ul style="list-style-type: none"> • Why do predators have sharp teeth? • Why does the coyote have more teeth than the sheep? • How does the shape of the animals teeth affect the type of food it eats? <ol style="list-style-type: none"> 9. Also have students notice the shape of each animal's head, eye placement and head size. How do these characteristics affect what they eat? <p>Closure</p> <ol style="list-style-type: none"> 1. Discuss with students the importance of both predator and prey in the environment. Without both, the ecosystem would be unbalanced.
<p>Assessment:</p>	<ol style="list-style-type: none"> 1. Have students draw a picture of either predator or prey. They need to include 3 characteristics that make it clear whether the picture is of prey or predators. Have them write at the bottom, what the animal is and what it eats. Also have them justify why their animal is a predator or a prey.

Sheep Teeth



Lamb	4 pair of Incisors
1 year	middle pair of Incisors
2 years	2nd pair of permanent Incisors
3 years	3rd pair of permanent Incisors
4 years	4th pair of permanent Incisors
5 years	all permanent Incisors close together
6 years	Incisors begin spreading apart
7-8 years	some Incisors broken
10-12 years	all Incisors missing

Mouth & Teeth:

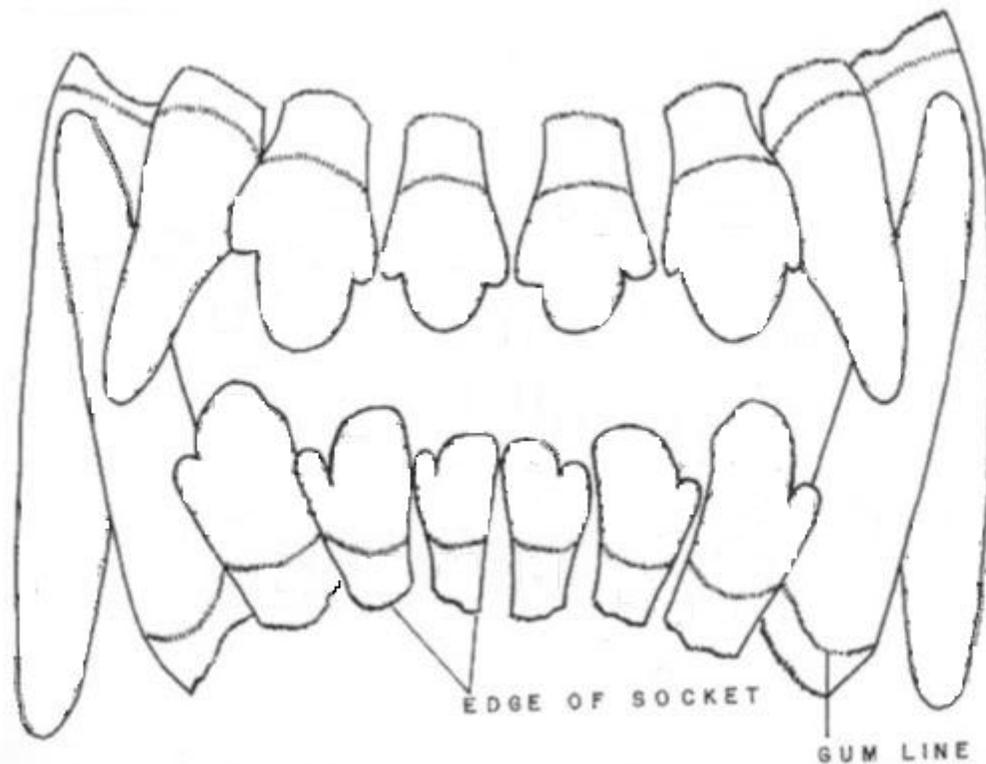
- 20 Temporary teeth
- 32 permanent teeth at maturity
- 4 pairs of incisor teeth on lower/front jaw
- Upper incisors missing
- Cartilaginous (hard) dental pad on upper jaw
- Split upper lip with mobile lips

Sheep teeth fact source:

Sheep Facts- By: Matthew Claeys & Sharon Rogers

http://www.cals.ncsu.edu/an_sci/extension/animal/4hyouth/sheep/sheepfacts.htm

Coyotes have 42 teeth including four long incisor teeth.



Coyote Teeth Picture by: Predator Master's Forum:

<http://www.predatormastersforums.com/forums/ubbthreads.php?ubb=showflat&Number=54065>

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