Nocturnal vs. Diurnal Animals
SIOP Lesson Plan

Background
Theme: Nocturnal vs. Diurnal Animals
Lesson Topic: Which animals come out at night and which ones come out during the day?
Grade: 1
Standards: State Science Standards of Learning, Grade 1, 1.5 & 1.7

Preparation

Content Objectives
Students will identify adaptations that help animals navigate daytime and nighttime environments.
Students will sort different animals that are either diurnal or nocturnal

Language Objectives
Students will be able to discuss the differences between animals that are active during the day and animals that are active at night.
Students will write one-sentence summaries presenting key information about nocturnal and diurnal animals.
Students will read their summaries about nocturnal and diurnal animals in front of the group.
Students will apply, orally and in writing, new vocabulary words related to nocturnal and diurnal animals.

Learning Strategies: Using T-charts, visual aid images (photographs), and other graphic organizers; developing vocabulary through context clues; summarizing key information

Key Vocabulary
Nocturnal, diurnal, nighttime, daytime, adapt, adaptation, temperature, habitat, navigate

Materials
- Books on nocturnal and diurnal animals (fiction and nonfiction),
- photographs and pictures of animals during the daytime and nighttime,
- markers,
- crayons,
- glue,
- scissors,
- construction paper of various colors,
- list of key vocabulary already written on chart paper with illustrations,
- objectives written on sentence strips for pocket chart,
- T-charts (streamlines discussion if anticipated features that will come up in brainstorm session are written ahead of time on sentence strips to be tacked to that T-chart),
- graphic organizer
Motivation:
- Ask students to describe their habitat, or place where they live, to a partner. Ask a few partners to share their ideas with the large group.
- Tell the students they are going to learn about how an animal’s habitat can show us whether particular animals like to come out at night or during the day.
- Ask students to think about how they might dress if they wanted to hide in the woods or in the city at night or during the day (What color clothing would they wear? Would they paint their faces a color—what color?)
- Distribute a variety of photographs of animals to small groups. Ask:
  - What do you already know about these animals?
  - What are their habitats?
  - What do they eat?
  - When do you usually see them—during the day or at night?
- After asking a few students at each group to share their ideas with the large group, ask students to sort the photographs onto labeled T-charts by daytime versus nighttime animals.
- Tell students that the science word for nighttime animals is nocturnal and the science word for daytime animals is diurnal.
- When introducing the words nocturnal and diurnal, ask the students whose native language is Spanish if any parts of those words look like Spanish words they know (i.e., NOcturnal/NOChe, Diurnal/Día), and tell them this can help them remember these new English words.

Presentation:
- Read the book Where Are the Night Animals? (or any similar book) to students.
- As you read the book out loud, stop periodically to discuss each of the animals in the book and what adaptations they have that show us they are nighttime, or nocturnal, animals. Explain the word adaptation and ask the students to Think-Pair-Share some examples of adaptations they know. Ask a few pairs to share for with the large group. Confirm, correct, and clarify student responses as necessary.
- Provide the following sentence stems, and ask students to predict if an animal is nocturnal:
  - I know it is nocturnal because its color is ________.
  - This animal eats ________, so I think it is nocturnal.
  - I think nocturnal animals live in ____________ places, so this animal must be nocturnal.
- Next, discuss what animals are considered daytime or diurnal. Provide the same sentence stems as above to ask students to predict if an animal is diurnal.
• In front of the large group, write down and discuss characteristics to consider when deciding if an animal is nocturnal or diurnal (camouflage, eyesight, etc.)?
• On a T-chart, label one side *diurnal* and draw a sun; label the other side *nocturnal* and draw a moon. Write the animals discussed on the chart.
• Ask students to tell their partner if they think humans are nocturnal or diurnal? Give the following sentence stems to start discussion:
  o I think humans are ________ because______.
  o I believe we are________ for several reasons.
  o I don’t think humans are ________ because ________.

**Practice/Application:**
• Give students pictures of animals with information about each. Have students choose one nocturnal animal and one diurnal animal to “profile.”
• Have students use graphic organizers (template attached) to record the name of their animal, identify it as nocturnal or diurnal, draw a picture of it, and write one key fact about it.

**Review/Assessment:**
• After students complete the activity, bring them together in large group (on the regular spot on the floor, if appropriate).
• In a Round Robin, ask each student to read two facts about their animals using his/her graphic organizer.
• After each student presentation restate the diurnal/nocturnal classification and conduct a large group comprehension check for class agreement.
• After each student presentation, add students’ animals to the T-chart (used with the group brainstorm earlier in the lesson) on the appropriate side (diurnal or nocturnal).
• Point out to students the many animals that are nocturnal and the many that are diurnal.

**EXTENSION:** Guide the class to develop a PowerPoint slide presentation. Using Kid Pix or similar software, students can draw animals and write sentences that depict illustrations. If time allows, they can also record themselves reading the sentence they’ve written. Once all the slides have been completed, they can be compiled into a slide presentation for students, parents, other classes, or visitors to the class Web page. If funding allows, the slide show may be recorded and distributed to each student.