

Grade 4 Science

Lesson: 5-1

Unit: Habitats and Communities

Topic: Intro

Lesson

"When I say 'habitat', what do you think of?"

- Define habitat: A place that is home to a plant or animal
- Point out fact that we are animals
- Have students close eyes → "Think of your habitat"
 - "What other living things are in your habitat?"
 - "What non-living things are in your habitat?"
 - "What threats are there in your habitat?"
- * Do this with beaver dam first then do human
- Open eyes and discuss
- Hand out worksheet and explain task
 - first do human / beaver comparison by lining up the facts e.g. my home is ... a beavers home is ...
 - Make title page on back

Reminders

Supplies Needed

- Worksheet

Homework

Notes

Grade 4 Science

Lesson: 5-2

Unit: Habitats and Communities

Topic: Needs of Living Things

Lesson

- Read introduction paragraph from worksheet
- Discuss
- Talk about beaver example from last class → is it the main habitat, or is it inside a larger one? (inside)
→ what other habitats are around it?
- stream, forest, rotting log etc
- Students work through worksheet
- Take up list of needs after ~ 5-10 minutes
- If students finish early they can compare their habitat drawings to those of their classmates.

Reminders

Supplies Needed

- Worksheet

Homework

Notes

Demonstrate an understanding of habitats as areas that provide plants and animals with the necessities of life

Grade 4 Science

Lesson: 5-3

Unit: Habitats and Communities

Topic: Producers + Consumers

Lesson

- Review habitat as home to living things that contains everything necessary for survival!
- Review things needed for survival : ~~Food~~ Energy (Food), Water, Air (O_2, CO_2), Sun, Space, Shelter, Warmth
- Ask "Do all living things get energy in the same way?" \rightarrow No : Plants - Sun
Animals - Eat
- Ask "Do all animals eat the same way (diet)?" \rightarrow No
- Read information from worksheet (alone or w/partner)
- Use reference books & (internet) to help answer questions on back
- If done, students can finish up title page.

Reminders

Supplies Needed

- Worksheets
- Reference Books (herbivores, omnivores, carnivores)

Homework

Notes

Grade 4 Science

Lesson: 5-4

Unit: Habitats and Communities

Topic: Food Chains

Lesson

- Review: "What is a producer?" - living thing that makes its own food (plants)
- "What is a consumer?" - living thing that consumes (eats) food (animals)
- "What are the three types of consumer?" Herbivore, Omnivore, Carnivore
- Explain that today we will be looking at how all of these living things are connected.
- Ask "How does a carnivore get its food?" - hunts it
- Ask "What do you call an animal who ~~is~~ hunts?" - predator
- "What do you call an animal who gets hunted?" - prey
- Hand out worksheet
- Students ~~will~~ read through information
- Students are to attempt questions with a partner

Reminders

Supplies Needed

worksheets

Homework

Notes

Grade 4 Science

Lesson: 5-5

Unit: Habitats and Communities

Topic: Making Food Chains

Lesson

- "What is a food chain?" - shows what living things eat each other
- Describe in more detail - shows how energy is passed from one living thing to another
 - (review)
 - arrows represent energy
- "What is always the first thing in the chain?" - a producer
- "Where does the producer get energy?" - the sun
- Discuss how the sun is the source of all energy → ex. sun gives energy to ~~rabbit~~ ^{rabbit} eats carrot, fox eats rabbit.
- Explain today's task:
 - Choose living things from a single habitat that make a food chain
 - Using cue cards, draw (cut out picture) of each living thing (1/card)
 - On back of card write out information about animal
 - Name, producer/consumer, herbivore/omnivore/carnivore, predator/prey,
 - Use yarn to connect your cards into a chain
- * Depending on time, could make two
- Share food chain with class

Reminders

- Book computers * or get reference books

Supplies Needed

- Cue cards

Homework

Notes

Grade 4 Science

Lesson: 5-6

Unit: Habitat and Communities

Topic: Making Food Chains 2

Lesson

- Review what a food chain is, that it starts with a producer, and ends with a consumer.
- Remind students of their task (see last class)
- Students use remainder of period to finish food chains

Reminders

Supplies Needed

- cue cards
- internet

Homework

Notes

Grade 4 Science

Lesson: 5-7

Unit: Habitats and Communities

Topic: Food Webs

Lesson

- Review:
 - Habitat
 - where something lives
 - contains everything necessary for life (food, water, air, shelter, sun)
 - Producer - Plant, makes own food
 - Consumer - Animal, eats food
 - Herbivore - eats only plants
 - Omnivore - eats plant and animal
 - Carnivore - eats only meat
 - Predator - hunts food
 - Prey - is hunted
- Food Chain - shows how energy flows from one living thing to the next.
- Ask "Is a habitat nice and orderly, like a food chain? → No
- Discuss → animals eat variety, not all get eaten etc
- Hand out worksheets
 - students read
 - do Food web
 - check with peers

Reminders

Supplies Needed

- Worksheets
- Cut-outs

Homework

Notes

Grade 4 Science

Lesson: 5-8

Unit: Habitats and Communities

Topic: Community

Lesson

- Ask students "what does community mean to you?"
→ take and discuss several answers
- Explain that when it comes to science, a community is a group of living things that interact and live together.
- Hand out worksheet → point out that the 2nd question is similar to the two examples on the front
- Students use period to ~~Finish~~ work
- If done, students are to finish up old work

Reminders

Supplies Needed

- Worksheets

Homework

Notes

demonstrate an understanding of a community as a group of interacting species sharing a common habitat

Grade 4 Science

Different Habitats

Lesson: 5-9

Unit: Habitats and Communities

Topic: Living Environment

Lesson

- Ask "Where does a monkey live?" → In the jungle (forest)
- "Where does a scorpion live?" → In the desert
- "Why do they live in different places?" → Habitat is different, they are suited to it
- Hand out worksheet
- Read info as a class
- Discuss different habitats → "Can you think of others?"
- Students answer questions → encourage detailing

Reminders

Supplies Needed

- worksheets.

Homework

Notes

availability of H₂O
" " food
amount of light
weather

Key factors that affect the ability
of plants and animals to survive in a
specific habitat

* Quiz Note

Grade 4 Science

3.7

Lesson: 5-10

Unit: Habitats and Communities

Topic: Adaptations

Lesson

- Explain today's task to students
 - Read about adaptations
 - Assignment explained on last page
 - Given 2 periods to read and complete assignment
- Hand out reading → read together, taking turns
- Review assignment
- Students work

Reminders

Supplies Needed

- worksheets
- Quiz Note

Homework

Notes

- Best to be in library for extra ideas

Describe a structural adaptation that allows a specific plant or animal to survive in a specific habitat.