HABITAT SIMILARITIES & DIFFERENCES

Students compare similarities and differences in habitats.

LEARNING OBJECTIVES

- Observe how habitat features in nature compare with habitat features in a salmon tank.
- Understand how plants and animals live in different conditions.
- Cultivate observation skills.
- Gain experience working in teams.

PREPARATION

- 1. Make color copies of the attached meadow and wetland posters to show on your overhead project or pull them up to be ready to show off the website.
- 2. Set aside Salmon Stream to read to students.
- 3. Cut cardboard strips and assemble into frames with a 15" window. Make one frame for each team of students you will have.
- 4. Set aside two magnifying glasses, one clipboard, and one pencil per team.
- 5. Make one copy per team of the attached habitat observation worksheet.
- 6. Survey your schoolyard to understand the kinds of habitats (bright sun, under a bush, trampled by many feet, next to the building, etc.) your students are likely to find.
- 7. Recruit as may adult volunteers or older students as you see fit to help in the schoolyard and brief them on the activity.

WHAT TO DO

Session One

- 1. Read and show the beginning of *Salmon Stream*, to the point that fry are ready to leave the stream (unnumbered p. 13). Prompt students to call out features in the book's illustrations having to do with shade for cooling the water, clean water, oxygen, food, and protection.
- 2. Take students to the tank and review basic needs as you point out how they are being met, including
 - cold water (chiller)
 - clean water (filters and net to remove any debris)
 - oxygen (aerator tubes)
 - food (whatever fish food is currently being fed)
 - protection (lid on tank)
- 3. Return to the classroom and prompt students to call out similarities and differences between a natural stream and the tank as you list them on the board.

GRADE

2nd

NEXT GENERATION

LS4-1

TIME

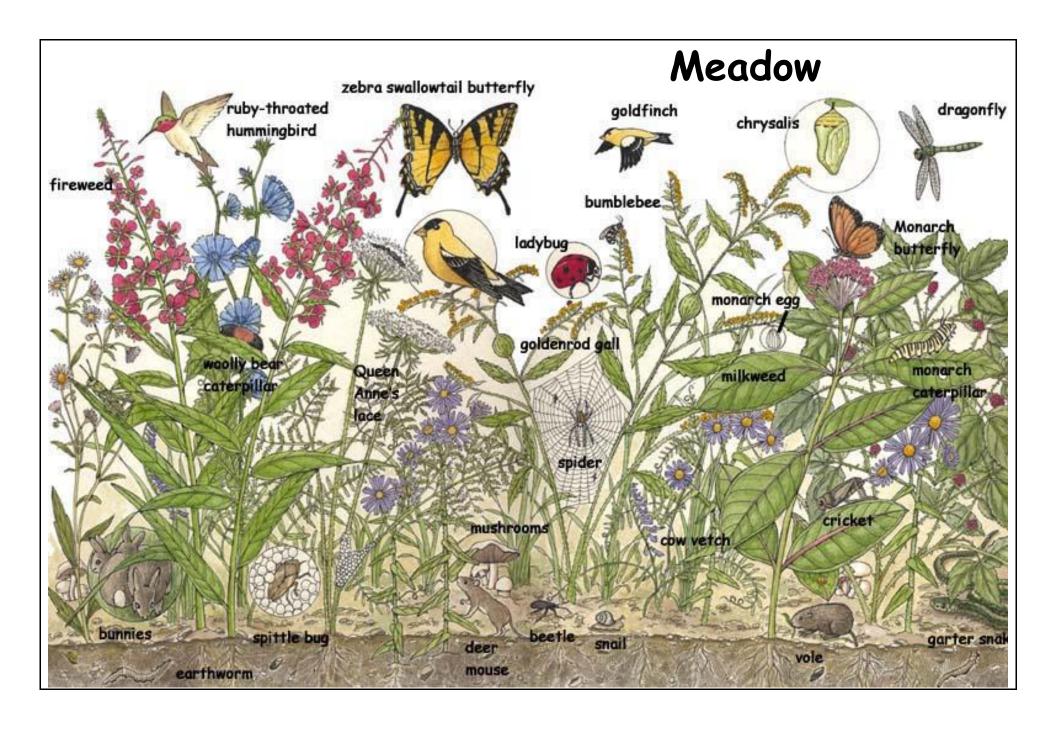
15 minutes Session 1 40 minutes Session 2

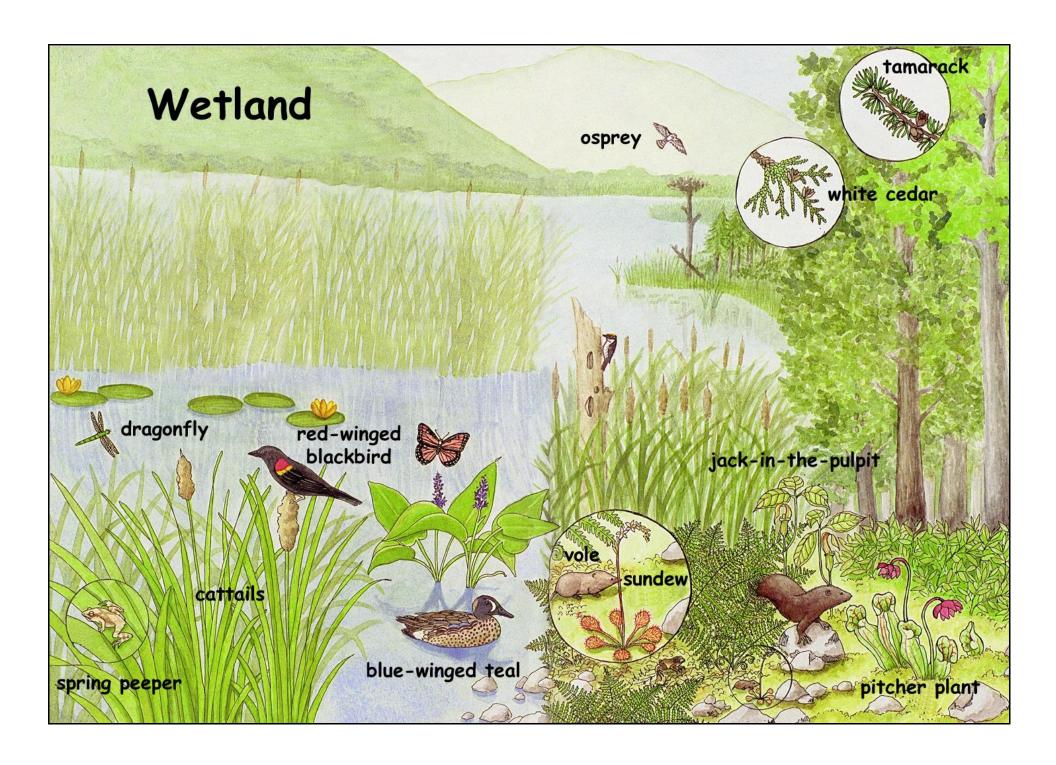
Session Two

- Show and discuss the meadow and wetland habitat images, looking for number and variety of living things. Emphasize that plants and animals in such habitats vary by climate; what we find here may not be the same as what students in other parts of the country would find or what we would find at other times of year.
- 2. Use a frame to demonstrate how student teams will examine a 15" square of habitat in the schoolyard, looking for different plants, animals, soil conditions, and light conditions.
- 3. Review the worksheet so students understand what information they will need to collect.
- 4. Divide into teams of four and assign responsibilities as follows:
 - a recorder; equip with a clipboard, pencil, and worksheet.
 - a frame holder; equip with a frame.
 - two investigators; equip with magnifying glasses.
- 5. Introduce each team to its helper.
- 6. Tell students that each team will select a location in the schoolyard to examine. Assign each team a type of habitat. If needed, assign more than one team to a type of habitat. Depending on your schoolyard, habitats might be
 - bright sun
 - deep shade
 - under a bush
 - trampled pathway or play area
 - next to a building, solid fence, or large rock
- 7. Take students into the schoolyard and demonstrate placement of the frame.
- 8. Direct each team to find its type of habitat, place the frame to define the study area, examine the area, and record findings. Dispatch helpers to assist as necessary to enable students to succeed.
- 9. Call time (15-20 minutes) and return to the classroom.
- 10. Ask each recorder to summarize team findings.

11. Prompt students to call out similarities and differences among the habitats and list them on the board.

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HABITAT OBSERVATION WORKSHEET

TEAM MEMBERS

WHERE IS YOUR SQUARE OF HABITAT?



CIRCLE THE	CONDITIONS Y	YOU FIND IN YO	OUR SQUA	RE.	
Sunny S	Shady Both	sun & shade	Other _		
Dry soil	Damp/wet soil	No soil	Other		
CIRCLE THE	THINGS YOU I	FIND IN YOUR S	QUARE.		
Rocks/grave	l Grass	Other plants	s; about ho	w many differe	nt kinds?
Crawling bug	gs Dead b	ugs Flying	g bugs	Spider web	Trash
Other					
SKETCH ANI	D LABEL THING	SS IN YOUR SQ	UARE OF	HABITAT.	