Integrate these resources into your classroom to maximize student learning from your educational program.

Activity: What’s Your Habitat?
Source: National Wildlife Federation

Activity: Animals and Habitats of Will County
Source: Forest Preserve District of Will County

Activity: We All Need Something
Source: Forest Preserve District of Will County

Activity: Is Your Home Like My Home?
Source: Forest Preserve District of Will County

Reference: Recommended Readings List
Source: Forest Preserve District of Will County

Correlated State Standards
Source: Forest Preserve District of Will County, the Council of Chief State School Officers (Common Core), and the National Research Council (NGSS)
What's Your Habitat?

Summary

Students explore basic survival needs of humans and wildlife by drawing their own homes and neighborhoods.

Grade Level: K-4; 5-8

Time: 1 class period (30-45 minutes)

Subjects: Science, Language Arts, Art

Skills: Analysis, comparison, application, description, synthesis

Learning Objectives:

Students will be able to:

- Name the four basic survival needs of humans
- Recognize that humans share the same basic needs as all other living things
- Create a picture showing how a habitat provides humans with what they need to survive
- Compare human and other animal habitats
- Identify how animals meet basic needs in habitats

Materials:

- Paper
- Crayons/markers
- Pictures of a human house, animal homes, animals in a habitat and examples of different habitats (Start with pictures of forest, desert, grassland and add local habitats students recognize.)

Background

All forms of life, from humans to cows to bears to flowers, need certain things to live. Survival depends on getting enough food, water, cover and places to raise young. Animals, plants, fungi and microbes share these same survival needs, though it is a little more challenging to think about how plants and microbes meet these needs. This activity focuses exclusively on animals. (Educators may challenge older students to look at the needs of plants and microbes as well.)

Animals must have a place to live where they can get food, water, cover and places to raise young. Cover may mean protection from sun or other elements as well as protection from other animals (called predators) that may eat the animal. Places to raise young can also mean a protected spot, like a bird’s nest, or an area with specific qualities that enable offspring to survive. For example, monarch butterflies lay their eggs on milkweed plants, which provide some cover as well as a food source for growing monarch larvae. Therefore, a monarch habitat must include milkweed plants for the butterfly to raise young.

Do humans have the same requirements as animals? They do. Humans build houses for cover and places to raise young. Other animals may build nests or burrows for protection or cover. Still others take cover where they find it, under trees or in a large herd. But for all animals (including humans), home is much bigger than a house. It’s the entire neighborhood where an animal gets the food, water and cover it needs to survive. Scientists call this home or place its habitat. For humans, habitat may mean the neighborhood or city in which they live.

Procedure

1. Ask students, What do all humans need to survive? Which of these do plants and animals also require? Focus on the four basic survival needs true for all living things. Guide class to generate a list with these needs: food, water, cover and places to raise young. Write the list on the board. Students may give other answers, which you can put with the four major categories.

2. Ask, Where do humans get the food, water, cover and places to raise young they need to survive? Generate a list of student answers. On the board, you may want to draw a picture of your own home/neighborhood to show where he/she locates food, water, cover and places to raise young.

3. Pass out art materials to students and ask them to draw their home. They can start with a picture of the house or building where they live. Tell them to leave space around the house to add other parts of their neighborhood where they meet their basic survival needs. Have them each pick a color to represent each of the four basic needs and write it on the bottom of the paper.

4. Ask, Where do people get food? (Perhaps from a supermarket or garden?) Where do they store this food?
and cook food? Have them add these places labeled with “food” (in the food color) to the drawing. Guide students to think about other needs. Where does the water they drink and bathe with come from? Is it from a well in the area or is it piped into their home from a reservoir? Where do they go to escape heat and sun or rain and snow? What other habitat elements do they need to survive?

To think about places to raise young, they should consider themselves the “young” and think about how their parents met this need. Add pictures of these to their drawings of “home.” Use the selected colors to label pictures to show what it provides for them (i.e. water).

5. Upon completion, have each student share his or her picture with the class. On the board, note how many of the habitat elements (food, water, cover and places to raise young) students included on drawings. Which needs appear on everyone’s drawing? Tell students that they have just drawn their own habitat. Habitat is home, the place where humans get all that they need to survive. Like all animals, habitat is where humans satisfy the most basic survival requirements - the food, water, cover and places to raise young. (For those who didn’t include the four habitat elements, have them go back and draw the missing ones in.) Display drawings.

6. As a wrap-up, compare the students’ habitats to pictures of animal habitats in the wild. Use pictures of animals that build a home to live in, such as an ant, a bird or a beaver. Then show pictures of animals that do not alter their environment, but find cover all the same - a snake that lives between rocks, for example. Discuss how the habitats are the same or different. Ask students, How might animals find the food, water, cover and places to raise young in the habitat?

Ask students if they think that humans depend on the physical environment of Earth to survive?

Extensions

✓ Have the class do a large mural of their combined habitat. Basing the mural on the individual habitat pictures students drew, compile a large drawing as a group, adding in the different features students identified. Perhaps a whole neighborhood habitat will emerge, which can remain on the wall of the classroom and be referred back to in later lessons.

Assessment

✓ Have students keep a journal for a day or a week in which they will write down each time they eat, drink, water, sleep in a safe shelter, find cover to escape the heat or cold and where and how they found these things in their habitat. Did they ever leave the habitat they drew during this activity? If so, what were they looking for? Do they think it was a “basic survival need” that should now be added to the drawing? Review their journals for evidence of correct application of habitat ideas to their own lives.

✓ Have students observe an animal at home or on the schoolyard for up to a week. Keep a similar journal to that outlined above for their observations.
Activity: Animals and Habitats of Will County
Source: Forest Preserve District of Will County

Have students select an animal from the list below. The animals are found in different habitats throughout Will County and Goodenow Grove Nature Preserve.

Have each student provide the following information:
1. a photo of animal in its habitat
2. name of animal
3. habitat animal is found in
4. what the animal eats
5. size of animal
6. three interesting things about the animal and its habitat

Woodland animals
• Blue spotted salamander
• Great horned owl
• Gray squirrel
• Scarlet tanager
• Woodland vole
• White-tailed deer
• Raccoon
• Chipmunk
• Daddy long legs

Pond Animals
• Bull frog
• Dragonfly nymph
• Mosquito larvae
• Northern water snake
• Great Blue Heron
• Bluegill
• Large mouth bass

Prairie Animals
• Smooth green snake
• Monarch butterfly
• Meadow vole
• Red-tailed hawk
• Eastern garter snake
• Eastern bluebird
• American goldfinch
• Garden spiders

Conclude: Have students group their animals together by habitat and hang up the grouped animals in the classroom.
Activity: We All Need Something.
Source: Forest Preserve District of Will County

1. Draw a three-column chart with headings of Human Animals, Tame Animals and Wild Animals.

2. Ask students, “What do people need in order to live?” List the students’ ideas in the Human Animal column. Do the same for Tame Animals and Wild Animals.

3. After the chart is complete, ask the students to cluster ideas together into larger themes. i.e. warmth might the same as beds which equals shelter. Guide students to identify like needs.

Each column will end up with the same essentials needs at the end of the activity: Food, Water, Shelter, Space, Arrangement, Sunlight, Soil, Air
Activity: Is Your Home Like My Home?
Source: Forest Preserve District of Will County

1. Ask students to draw a floor plan of where they live. Be sure to include – a place to cook and keep food, a place to sleep, and source of water.

2. When the drawings are done, have students discuss their homes with one another. Ask students to point out the things they need to live and that they included in their drawings. Ask the students how their homes are similar to animals’ homes. Can a human’s home be compared to an animal’s home?

3. Hang the drawings together. Explain that everyone has a home and together all the homes form a neighborhood. Neighborhoods form a community. A community of animals includes animals and plants of different species. How are human communities like animal communities?

4. Ask the students to close their eyes and imagine a squirrel’s home, an worm’s home, a owl’s home etc. Show the students pictures of different places that animals live.

5. Discuss the differences and similarities among the different homes. Have students identify the different components every animal needs in its home (shelter) – food, water, shelter, space.
Pre/Post Site Teacher Material List
Program: Sniff, Look, and Listen
Plum Creek Nature Center Field Trip

**Reference:** Recommended Readings List
**Source:** Forest Preserve District of Will County

- **Claws, Coats, and Camouflage – The Ways Animals Fit into Their World**, Susan Goodman. 2001
- **Over in the Forest Come and Take a Peek**, Marianne Berkes. 2012.
Pre/Post Site Teacher Materials
Program: Sniff, Look and Listen
Plum Creek Nature Center Field Trip

Correlated Common Core State Standards
Source: Forest Preserve District of Will County and the Council of Chief Sate School Officers (CCSSO)

Identified ELA and Math Standards are detailed below specific to this education program.

### ELA Standards

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>K</th>
<th>Grade 1</th>
<th>Grade 2</th>
<th>Grade 3</th>
<th>Grade 4</th>
<th>Grade 5</th>
<th>Grade 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading for Information (RI)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RI.K.3</td>
<td>RI.1.3</td>
<td>RI.2.3</td>
<td>RI.3.3</td>
<td>RI.4.3</td>
<td>RI.5.3</td>
<td>RI.6.4</td>
<td></td>
</tr>
<tr>
<td>RI.K.4</td>
<td>RI.1.4</td>
<td>RI.2.4,</td>
<td>RI.3.4</td>
<td>RI.4.4</td>
<td>RI.5.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speaking and Listening (SL)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SL.K.1</td>
<td>SL.1.1</td>
<td>SL.2.1</td>
<td>SL.3.1</td>
<td>SL.4.1</td>
<td>SL.5.1</td>
<td>SL.6.1</td>
<td></td>
</tr>
<tr>
<td>SL.K.2</td>
<td>SL.1.2</td>
<td>SL.2.2</td>
<td>SL.3.2</td>
<td>SL.4.2</td>
<td>SL.5.2</td>
<td>SL.6.2</td>
<td></td>
</tr>
<tr>
<td>SL.K.3</td>
<td>SL.1.3</td>
<td>SL.2.3</td>
<td>SL.3.3</td>
<td>SL.4.3</td>
<td>SL.5.3</td>
<td>SL.6.3</td>
<td></td>
</tr>
<tr>
<td>SL.K.4</td>
<td>SL.1.4</td>
<td>SL.2.4</td>
<td>SL.3.4</td>
<td>SL.4.4</td>
<td>SL.5.4</td>
<td>SL.6.4</td>
<td></td>
</tr>
<tr>
<td>SL.K.6</td>
<td>SL.1.6</td>
<td>SL.2.6</td>
<td>SL.3.6</td>
<td>SL.4.6</td>
<td>SL.5.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Writing (W)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W.K.8</td>
<td>W.1.8</td>
<td>W.2.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language (L)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L.K.1,</td>
<td>L.1.1,</td>
<td>L.2.1,</td>
<td>L.3.1,</td>
<td>L.4.1,</td>
<td>L.5.1,</td>
<td>L.6.1,</td>
<td></td>
</tr>
<tr>
<td>L.K.5,</td>
<td>L.1.5,</td>
<td>L.2.5,</td>
<td>L.3.6,</td>
<td>L.4.6,</td>
<td>L.5.6,</td>
<td>L.6.6,</td>
<td></td>
</tr>
<tr>
<td>L.K.6</td>
<td>L.1.6</td>
<td>L.2.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Math Standards

<table>
<thead>
<tr>
<th>Domain</th>
<th>K</th>
<th>Grade 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geometry (G)</td>
<td>K.G.1</td>
<td>1.G.1</td>
</tr>
</tbody>
</table>
Identified Science Standards are detailed below specific to this education program.

<table>
<thead>
<tr>
<th>Disciplinary Idea</th>
<th>K</th>
<th>Grade 1</th>
<th>Grade 2</th>
<th>Grade 3</th>
<th>Grade 4</th>
<th>Grade 5</th>
<th>Grade 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life Science 1, Molecules and Organisms (LS1)</td>
<td>K.LS1.1,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life Science 4, Biological Evolution (LS4)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.LS4.1</td>
<td>3.LS4.3</td>
<td></td>
</tr>
<tr>
<td>Earth and Space Science 2, Earth’s Systems (ESS2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.ESS2.2</td>
</tr>
<tr>
<td>Earth and Space Science 3, Earth and Human Activity (ESS3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>K.ESS3.2</td>
</tr>
</tbody>
</table>