



## Upper Salmon River Watershed Vocabulary Activity

<b>Created by:</b> IRRRC	<b>Time Required:</b> 1 class period
<b>Subject:</b> Language Arts/ Science	<b>Grade Level:</b> 3+ (adaptable)

<b>Overview</b>	Students will take a vocabulary pretest, watch a video clip about a specific area of rangeland in Idaho, take notes on a KWL worksheet, play a vocabulary game, then take a vocabulary posttest.
<b>Goal(s) &amp; Objective(s)</b>	Students will use context to identify the meanings of unfamiliar words
<b>Prerequisites &amp; Materials</b>	<p><b>Materials:</b></p> <ul style="list-style-type: none"> <li>Classroom computers (per student or in partners)</li> <li>copies of pretest/posttest</li> <li>copies of KWL worksheet (or students may copy onto their own paper from a projector or teacher example)</li> <li>copies of vocabulary puzzle (optional)</li> </ul>
<b>Teaching Activities:</b> <i>Instructional Approaches/Strategies</i>	<p><b>Introduction:</b></p> <ol style="list-style-type: none"> <li>1. Give students the online vocabulary quiz- “Upper Salmon Basin Watershed”: <a href="http://www.quia.com/quiz/3186095.html">http://www.quia.com/quiz/3186095.html</a></li> <li>2. Watch video of range story posted on “Life on the Range” website: <a href="http://www.lifeontherange.org/range-stories/upper-salmon-river-basin-model-watershed-project.asp">http://www.lifeontherange.org/range-stories/upper-salmon-river-basin-model-watershed-project.asp</a></li> </ol> <p><b>Procedures:</b></p> <ol style="list-style-type: none"> <li>1. Hand out the KWL (what you know, want to know, and learned) worksheet to students or have students copy the table into their notebook from an overhead or computer projection. Give an example of how a KWL chart works (i.e. grass (a word they know) Riparian (a word they want to know) they will fill out the “learned” column at the end of this lesson.</li> <li>2. Present vocabulary words to students; tell them they will use these words to fill out the KWL chart. You may have to watch the movie more than once.</li> <li>3. Have students listen to the video clip from “Life on the Range” for the KWL vocabulary. Fill out the chart with students with the words that</li> </ol>

	<p>they learned/heard from the movie clip.</p> <p>4. If desired, have students check their definitions with classroom dictionaries or online (students will be able to see correct definitions in the practice activities)</p> <p>Have students complete one or both of the following:</p> <ol style="list-style-type: none"> <li>1. Hand out the Crossword Puzzle that corresponds with the vocabulary in the KWL chart &amp; movie clip.</li> <li>2. Have students go to the website below to play the concentration game, use the flashcards, or play the matching game:</li> </ol> <p style="text-align: center;">Upper Salmon: : <a href="http://www.quia.com/jg/2272084.html">http://www.quia.com/jg/2272084.html</a></p> <p>5. (<b>Grades 6 +</b>) Have students complete movie worksheet</p>
<b>Assessment:</b>	<ol style="list-style-type: none"> <li>1. Check student understanding by taking/correcting the vocabulary posttest. Have students compare with their pretest.</li> </ol>

**Attachments:**

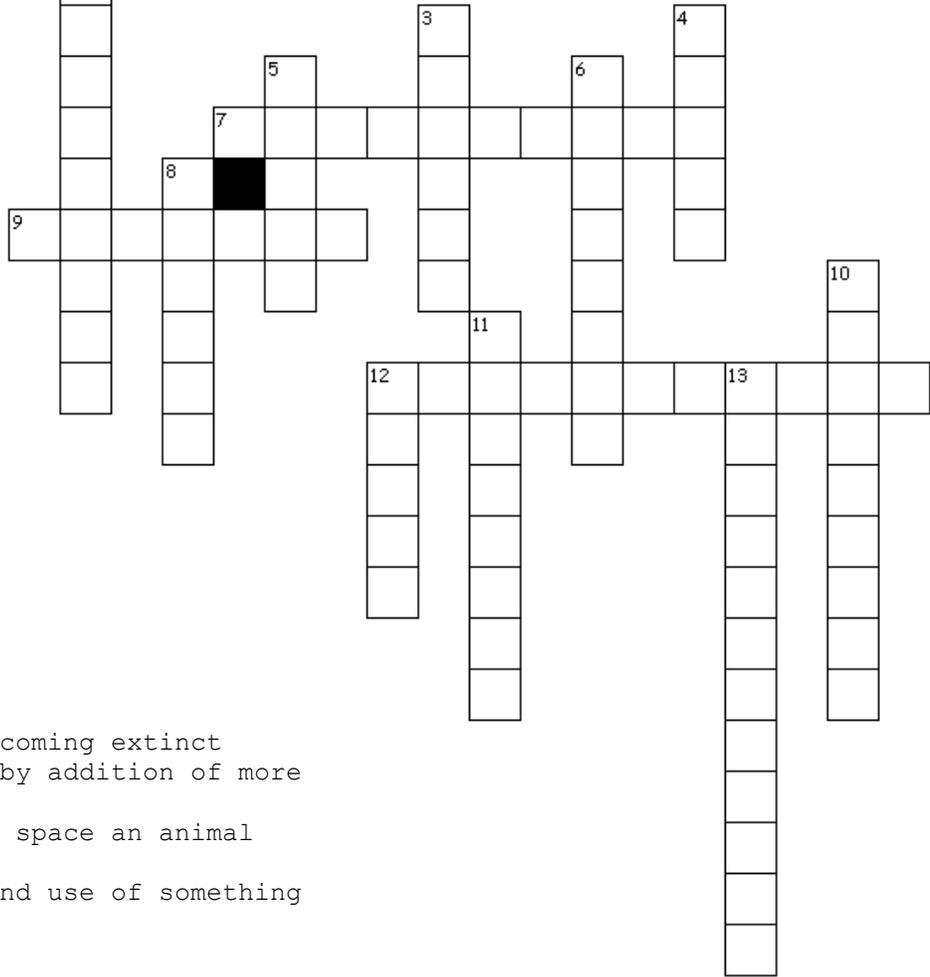
- Crossword Puzzle & Key
- Vocabulary Pretest & Test with Key
- Video Questions

## Upper Salmon River Vocabulary Puzzle

Name \_\_\_\_\_

1					2				
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<b>Word Bank</b>
Cumulative
Endangered
Ground water
Habitat
Recharge
Riparian
Rural
Spawn
Stewardship
Surface Water
Tributary
Viable



**Across**

- 1. A species in danger of becoming extinct
- 7. Something that increases by addition of more parts to a system
- 9. Food, water, shelter, and space an animal needs to survive
- 12. Responsible management and use of something trusted to one's care

**Down**

- 2. Water beneath the earth's surface which can be used for wells (two words)
- 3. A type of fish that return to the creek or river where they hatched to spawn
- 4. The amount of a product such as hay or grain
- 5. Less populated areas in the countryside
- 6. Located on the bank of a stream, river, or lake
- 8. Capable of living or working successfully
- 10. A smaller river or stream that flows into a larger river, stream, or lake
- 11. Replenishing or "filling up" of groundwater when water sinks through soil and rock
- 12. To deposit large quantities of eggs
- 13. Bodies of water visible on the earth such as lakes, rivers, streams, and oceans (two words)

## Crossword Puzzle KEY

### Across

1. **Endangered**
7. **Cumulative**
9. **Habitat**
12. **Stewardship**

### Down

2. **Ground water**
3. **Salmon**
4. **Yield**
5. **Rural**
6. **Riparian**
8. **Viable**
10. **Tributary**
11. **Recharge**
12. **Spawn**
13. **Surface water**

# Upper Salmon River Vocabulary KWL

Name \_\_\_\_\_

Word List: Spawning, Endangered, Salmon, Stewardship, Yield, Riparian, Habitat, Tributary, Rural, Viable, Cumulative, Surface water, Ground water, Recharge

<b>K</b>	<b>W</b>	<b>L</b>
<p>Which words are you pretty sure you <b>KNOW</b> the definitions for? Write them here, with a definition of what you think they mean.</p>	<p>Which words do you <b>WANT</b> (need) to know? Leave some space after each word so you will have space to line it up with its definition in the last column.</p>	<p>Which words did you <b>LEARN</b> the meaning of by watching the video and reading the article? Write the meaning of the word here.</p>

# Upper Salmon Basin

## Vocabulary Pretest

Name \_\_\_\_\_

Write the letter for the correct definition in the space next to each word.

- |                         |   |
|-------------------------|---|
| 1. Spawn _____          | a. the amount of a product such as hay or grain                                       |
| 2. Endangered _____     | b. located on the bank of a stream, river, or lake                                    |
| 3. Salmon _____         | c. replenishing or "filling up" of groundwater when water sinks through soil and rock |
| 4. Stewardship _____    | d. bodies of water visible on the earth such as lakes, rivers, streams, and oceans    |
| 5. Yield _____          | e. to deposit large quantities of eggs  |
| 6. Riparian _____       | f. a species in danger of becoming extinct  |
| 7. Habitat _____        | g. capable of living or working successfully  |
| 8. Tributary _____      | h. water beneath the earth's surface which can be used for wells                      |
| 9. Rural _____          | i. a smaller river or stream that flows into a larger river, stream, or lake          |
| 10. Viable _____        | j. food, water, shelter, and space an animal needs to survive                         |
| 11. Cumulative _____    | k. something that increases by addition of more parts to a system                     |
| 12. Surface water _____ | l. responsible management and use of something trusted to one's care                  |
| 13. Groundwater _____   | m. less populated areas in the countryside  |
| 14. Recharge _____      | n. a type of fish that returns to the creek or river where they hatched to spawn      |

# Upper Salmon Basin

## Vocabulary Pretest KEY

Name \_\_\_\_\_

Write the letter for the correct definition in the space next to each word.

- |                                |   |
|--------------------------------|---|
| 1. Spawn <u>  E  </u>          | a. the amount of a product such as hay or grain                                       |
| 2. Endangered <u>  F  </u>     | b. located on the bank of a stream, river, or lake                                    |
| 3. Salmon <u>  N  </u>         | c. replenishing or "filling up" of groundwater when water sinks through soil and rock |
| 4. Stewardship <u>  L  </u>    | d. bodies of water visible on the earth such as lakes, rivers, streams, and oceans    |
| 5. Yield <u>  A  </u>          | e. to deposit large quantities of eggs  |
| 6. Riparian <u>  B  </u>       | f. a species in danger of becoming extinct  |
| 7. Habitat <u>  J  </u>        | g. capable of living or working successfully  |
| 8. Tributary <u>  I  </u>      | h. water beneath the earth's surface which can be used for wells                      |
| 9. Rural <u>  M  </u>          | i. a smaller river or stream that flows into a larger river, stream, or lake          |
| 10. Viable <u>  G  </u>        | j. food, water, shelter, and space an animal needs to survive                         |
| 11. Cumulative <u>  K  </u>    | k. something that increases by addition of more parts to a system                     |
| 12. Surface water <u>  D  </u> | l. responsible management and use of something trusted to one's care                  |
| 13. Groundwater <u>  H  </u>   | m. less populated areas in the countryside  |
| 14. Recharge <u>  C  </u>      | n. a type of fish that returns to the creek or river where they hatched to spawn      |

# Upper Salmon Basin

## Vocabulary Test

Name \_\_\_\_\_

Write the letter for the correct definition in the space next to each word.

- |                         |   |
|-------------------------|---|
| 1. Salmon _____         | a. the amount of a product such as hay or grain                                       |
| 2. Riparian _____       | b. water beneath the earth's surface which can be used for wells                      |
| 3. Spawn _____          | c. a type of fish that returns to the creek or river where they hatched to spawn      |
| 4. Stewardship _____    | d. bodies of water visible on the earth such as lakes, rivers, streams, and oceans    |
| 5. Rural _____          | e. to deposit large quantities of eggs  |
| 6. Endangered _____     | f. less populated areas in the countryside  |
| 7. Viable _____         | g. something that increases by addition of more parts to a system                     |
| 8. Recharge _____       | h. located on the bank of a stream, river, or lake                                    |
| 9. Yield _____          | i. a smaller river or stream that flows into a larger river, stream, or lake          |
| 10. Habitat _____       | j. food, water, shelter, and space an animal needs to survive                         |
| 11. Cumulative _____    | k. capable of living or working successfully  |
| 12. Groundwater _____   | l. responsible management and use of something trusted to one's care                  |
| 13. Surface water _____ | m. a species in danger of becoming extinct  |
| 14. Tributary _____     | n. replenishing or "filling up" of groundwater when water sinks through soil and rock |

# Upper Salmon Basin

## Vocabulary Test KEY

Name \_\_\_\_\_

Write the letter for the correct definition in the space next to each word.

- |                                |   |
|--------------------------------|---|
| 1. Salmon <u>  c  </u>         | a. the amount of a product such as hay or grain                                       |
| 2. Riparian <u>  h  </u>       | b. water beneath the earth's surface which can be used for wells                      |
| 3. Spawn <u>  e  </u>          | c. a type of fish that returns to the creek or river where they hatched to spawn      |
| 4. Stewardship <u>  l  </u>    | d. bodies of water visible on the earth such as lakes, rivers, streams, and oceans    |
| 5. Rural <u>  f  </u>          | e. to deposit large quantities of eggs  |
| 6. Endangered <u>  m  </u>     | f. less populated areas in the countryside  |
| 7. Viable <u>  k  </u>         | g. something that increases by addition of more parts to a system                     |
| 8. Recharge <u>  n  </u>       | h. located on the bank of a stream, river, or lake                                    |
| 9. Yield <u>  a  </u>          | i. a smaller river or stream that flows into a larger river, stream, or lake          |
| 10. Habitat <u>  j  </u>       | j. food, water, shelter, and space an animal needs to survive                         |
| 11. Cumulative <u>  g  </u>    | k. capable of living or working successfully  |
| 12. Groundwater <u>  b  </u>   | l. responsible management and use of something trusted to one's care                  |
| 13. Surface water <u>  d  </u> | m. a species in danger of becoming extinct  |
| 14. Tributary <u>  i  </u>     | n. replenishing or "filling up" of groundwater when water sinks through soil and rock |

# Upper Salmon Basin Watershed Program

## Comprehension Questions

Name \_\_\_\_\_

1. What type of irrigation system did the Phillips switch to?
2. What type of results did they see?
3. About how many ranchers in the Upper Salmon Basin have participated in this program?
4. How long did it take for Chinook Salmon to return to spawning in Iron Creek after the project was completed?
5. Was the project easy or difficult for the Phillips?
6. How much did the project cost?
7. By converting to sprinkler irrigation, when do the Phillips have more water?
8. What other types of projects has the Upper Salmon Basin Watershed Program supported?
9. What do ranchers have most control over?
  - a. Habitat improvement
  - b. Hydropower Dam renovation
  - c. Salmon harvest
  - d. Weather patterns

After the video, answer the following questions:

10. Why would maintaining a rural community be important to Salmon Habitat?
11. Why would all ranchers not convert to sprinkler irrigation immediately, even though it produces higher yields of hay?
12. Where does the groundwater used for sprinkler irrigation wells come from? How is this water returned to the soil?