**Salmon Review:**

1. Draw the life cycle:
2. Male rainbow trout are colorful and bright because: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Female rainbow trout re boring and brown because: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Why do salmon need to spend time in the estuary before going to the ocean?
5. How are dead salmon important to new salmon?

Dead Salmon 🡺 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_🡺\_\_\_\_\_\_\_\_\_\_\_ for juvenile salmon

1. How do the salmon/steelhead know where to return?

- What stage do they develop this in?

1. What is meant by anadromous?
* What physiological adjustments are needed to allow this?
1. What are the affects of erosion on salmon?

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| **Effect** | **Life stage most affected** | **Justification for life stage chosen**  |
|  |  |  |

1. Give 3 reasons that salmon require gravel:

|  |  |  |
| --- | --- | --- |
| 1) | 2) | 3) |

1. Explain what a trapezoidal channel is and how it negatively affects fish.
2. How does a stream change shape as it develops?
3. Native species of plants affect water oxygenation? Explain how.
4. What is a fish ladder and what is its purpose?
5. Give 4 ways people are harming streams and 4 ways they are helping? *(Think of artificial streams, invasive species, shape of the stream etc.)*

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| **Hurting** | **Helping** |
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1. Are Steelhead and Rainbow Trout are similar, explain how.
2. What are the 4 characteristics of migration?

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| --- | --- |
| 1) | 2) |
| 4)  | 5)  |

1. Salmon first use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as energy to power their migration. After all of it is used they move onto using \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and try to not use any \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Why don’t all the salmon migrate to the same place?
3. What 2 factors help the salmon know where to go?

|  |  |
| --- | --- |
| 1) | 2) |

1. Wild Caught Vs Farmed Fish

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| --- | --- | --- |
|  | **Farmed** | **Wild Caught** |
|  | **Pro Con** | **Pro Con** |
| Environmental  |  |  |  |  |
| Ecological  |  |  |  |  |
| Free Choice  |  |  |  |  |

1. If only one of the above methods could be used, which would you choose and why?
2. What is a fish hatchery and why are they needed?
3. Why did the steelhead trout grow faster in the fish hatchery than they would in the wild?
4. The Don Clausen Dam has many pros and cons, please list a few:

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| --- |
| **Pro Con** |
|  |  |
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