Water Quality Worksheet

*This worksheet is intended to help you follow along during these video lessons, make predictions, take notes, and reflect. Use it in the way that is most helpful to you.*

**What is Water Quality?**

Your ideas or definition:

Presenters’ definition:

Why do we care about Water Quality?

1. For humans:

1. For animals and ecosystems?
2. What is one question you have about Water Quality?

**Lesson 1: Testing pH at Home**

What are some acidic things you can find at your house?

What are some basic things you can find at your house?

Definition of pH:

What household item(s) will you use as a pH *indicator* (cabbage, onion, cherries, other)? You can find more ideas here <https://www.thoughtco.com/home-and-garden-ph-indicators-601971>

What three household liquids will you test to see if they are acidic or basic?

Record your predictions and results:

|  |  |  |
| --- | --- | --- |
| **Household liquid** | **Prediction** (acid or base? pH value?) | **Results** (acid or base? pH value?) |
| 1. |  |  |
| 2. |  |  |
| 3. |  |  |

Watch the Science Guys Red Cabbage pH Indicator video here: <https://www.youtube.com/watch?v=I18K2upEHLc>

**Lesson 2: Water Quality in Rivers and Streams**

What are the Water Quality factors that most impact salmon?

Your ideas or answer:

Presenter’s answer: *(notes)*

1. :

2. :

3. :

4. :

How do salmon hatcheries impact water quality in streams?

Your ideas or answer: eutrophication is …

Presenter’s answer:

**Lesson 3: Contaminants and pollutants**

Video 1 - Carbaryl

Video 2 - Copper

Video 3 - Chlorpyrifos

How do these different contaminants enter the watershed?

How do these contaminants impact fish differently?

**Conclusions**

What are the ideal water quality conditions for salmon?

How do humans impact those conditions?

What can you do at home to make the water quality in streams better for salmon?