**At Home Water Filter Test Data**

Use 1 inch of each material in the filters. Use 100 ml of creek water to pour into each filter.

Trial 1 Filter:

1. Sand
2. Cotton

Flow seemed slightly slow. Water appeared clear as a result

Trial 2 Filter:

1. Rocks
2. Sand
3. Cotton

Flow was fastest with the rocks on top. Water came out relatively clear.

Trial 3 Filter:

1. Pebbles
2. Sand
3. Cotton

Flow was slower than having the large rocks on top. This may be because bigger particles clog the filter whereas with the rocks they stop the particles and still have room for the water to flow

Trial 4 Filter:

1. Rocks
2. Pebbles
3. Sand
4. Cotton

By this Trial the conductivity/TDS decreased significantly.

Trial 5: Creek water with no filtration.

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| Trial | pH | Conductivity (µS/cm) | TDS (mg/L) | Qualitative Turbidity | |
| 1 | 6.16 | 525 | 1050 | Clear/Slightly Cloudy | |
| 2 | 6.27 | 367 | 734 | Clear/Slightly Cloudy | |
| 3 | 6.35 | 321 | 642 | Clear/Slightly Cloudy | |
| 4 | 6.36 | 229 | 458 | Clear |  |
| 5 | 6.18 | 1197 | 2394 | Dirty, Visible Particles | |