**Data Collection Worksheet: Part 1**

Describe the polluted water before treatment:

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| --- | --- |
| **A drawing of our polluted water** | **Observations of our polluted water****(What I see and smell)** |
|  |  |

I predict that the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (filter type) will remove \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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when we pour the polluted water through it because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Our filter is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- |
| **A drawing of our filter system** |
|  |

Describe the filtered water after treatment:

|  |  |
| --- | --- |
| **A drawing of our filtered water** | **Observations of our filtered water****(What I see and smell)** |
|  |  |

**Results**

My prediction was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (correct/incorrect) because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Class Data**

|  |  |
| --- | --- |
| **Treatment Type** | **Removed this type of “pollution”** |
| Mesh filter only |  |
| Cotton ball filter |  |
| Filter paper |  |
| Sand filter |  |
| Soil filter |  |
| Small pebbles filter |  |
| Large pebbles filter |  |
| Charcoal filter |  |
| Aeration |  |

**Plan for the Best Water Filter**

Type of water we will use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (aerated or non-aerated) because

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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We will use (material) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in our filter because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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We will use (material) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in our filter because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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We will use (material) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in our filter because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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We will use (material) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in our filter because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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We will use (material) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in our filter because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Data Collection Worksheet: Part 2**

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| **A drawing of our best water filter setup** |
|  |

Describe the filtered water after treatment:

|  |  |
| --- | --- |
| **A drawing of our filtered water** | **Observations of our filtered water****(What I see and smell)** |
|  |  |

**Questions**

Did your filter work as you expected it to? Explain why or why not.

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Do you think the filtered water is clean enough to drink? Explain why or why not.

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Do you think the filtered water is clean enough to put into a river? Explain why or why not.

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List some ideas for ways you might get the “polluted water” cleaner.

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