

**NAME:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**STUDENT #:** \_\_\_\_\_ **TEACHER:** \_\_\_\_\_

## Student Sheet 1: Sink or Float- Predict, Observe, Explain

<u><b>Event</b></u>	<u><b>Predict</b></u>	<u><b>Observe</b></u>	<u><b>Explain</b></u>
Describe the Event	What do you think you will see?	What did you see?	Why did that happen?
Oil and Water in a Graduated Cylinder			
Metal Cork vs. Wood Cork in water			
Ping Pong Ball vs. Golf Ball in water			
One LEGO vs. Five LEGOs in water			
Clay Ball vs. Clay Boat in water			

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## Investigation Sheet 1

Record the steps in your procedure to test how to determine the number of washers needed to sink the cork in the graduated cylinder of water.

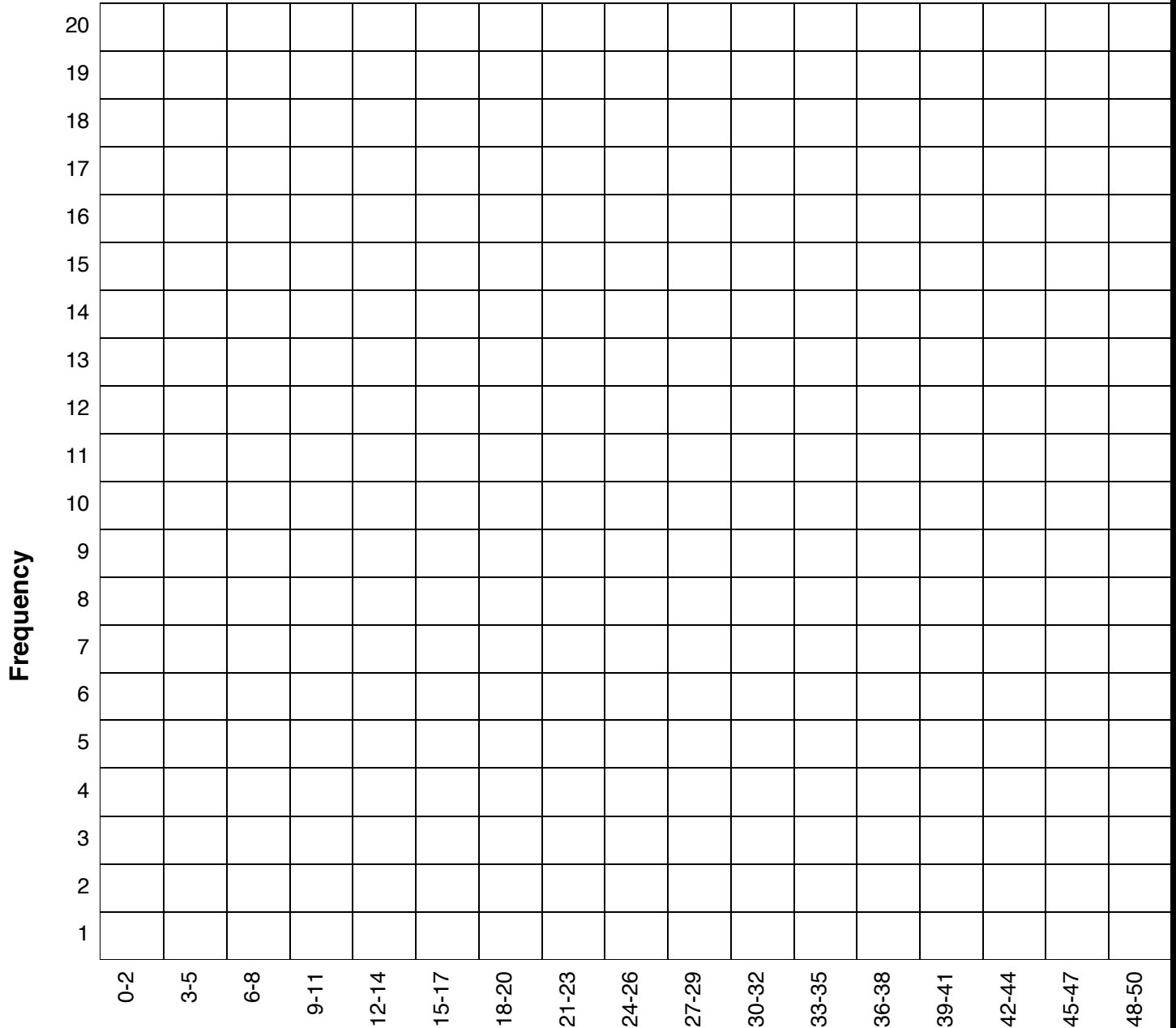
### DATA

Cork	Description of cork	Number of washers needed to sink cork	Mass of Washers	Mass of Cork, Paperclip and Washers
1				
2				

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## Results Graph 1



Place an X in the box above the number of washers each group used to sink their cork . If more than one group gets the same result, place the X in the next row above the number of milliliters of water.

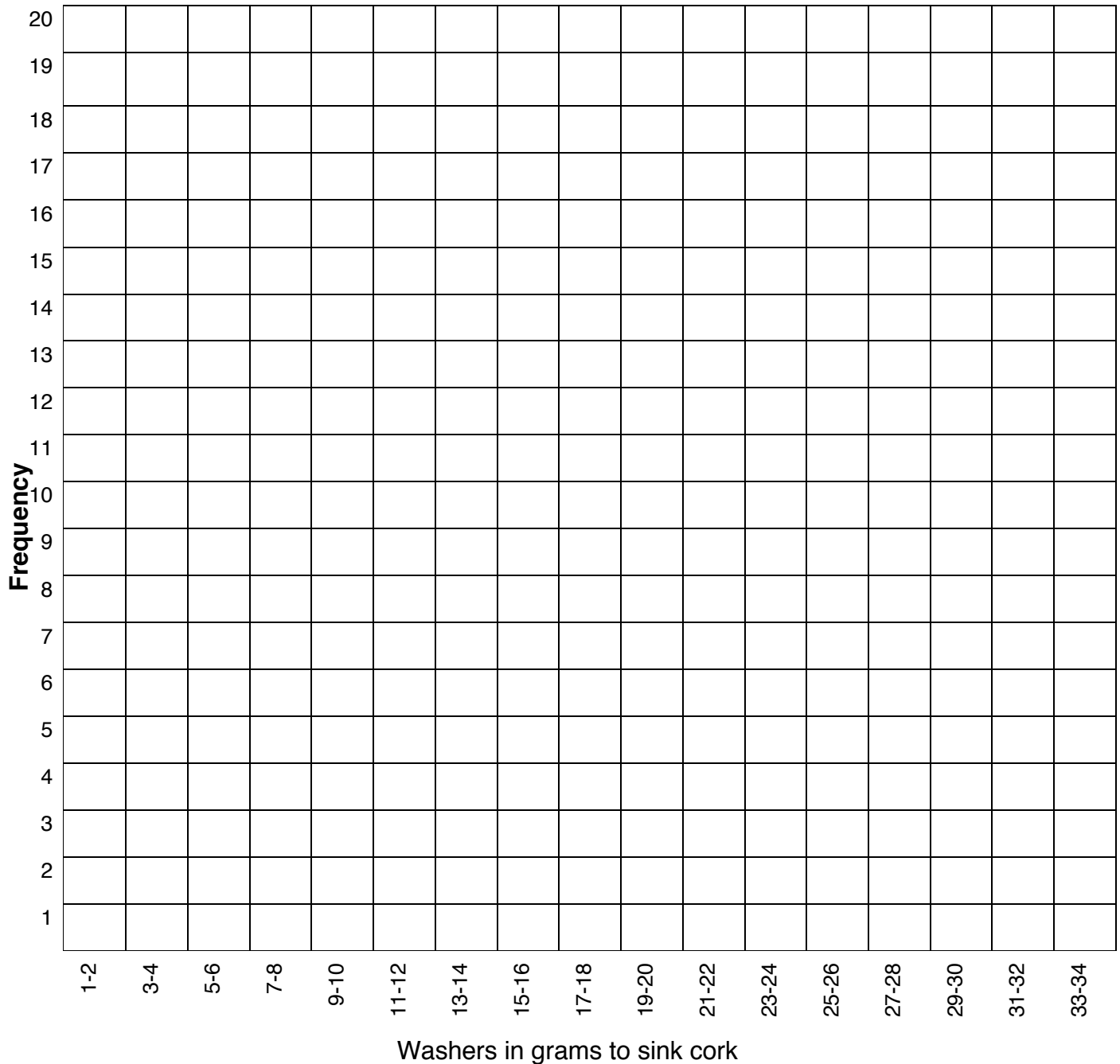
Number of Washers needed to sink cork

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## Results Graph 2

Place an X in the box above the number of grams of washers it took to sink your cork. If you have a decimal point, round to the nearest whole number.



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## Investigation Sheet 2

Record the steps in your procedure to test how to determine the number of washers needed to sink the cork in the graduated cylinder of water.

### DATA

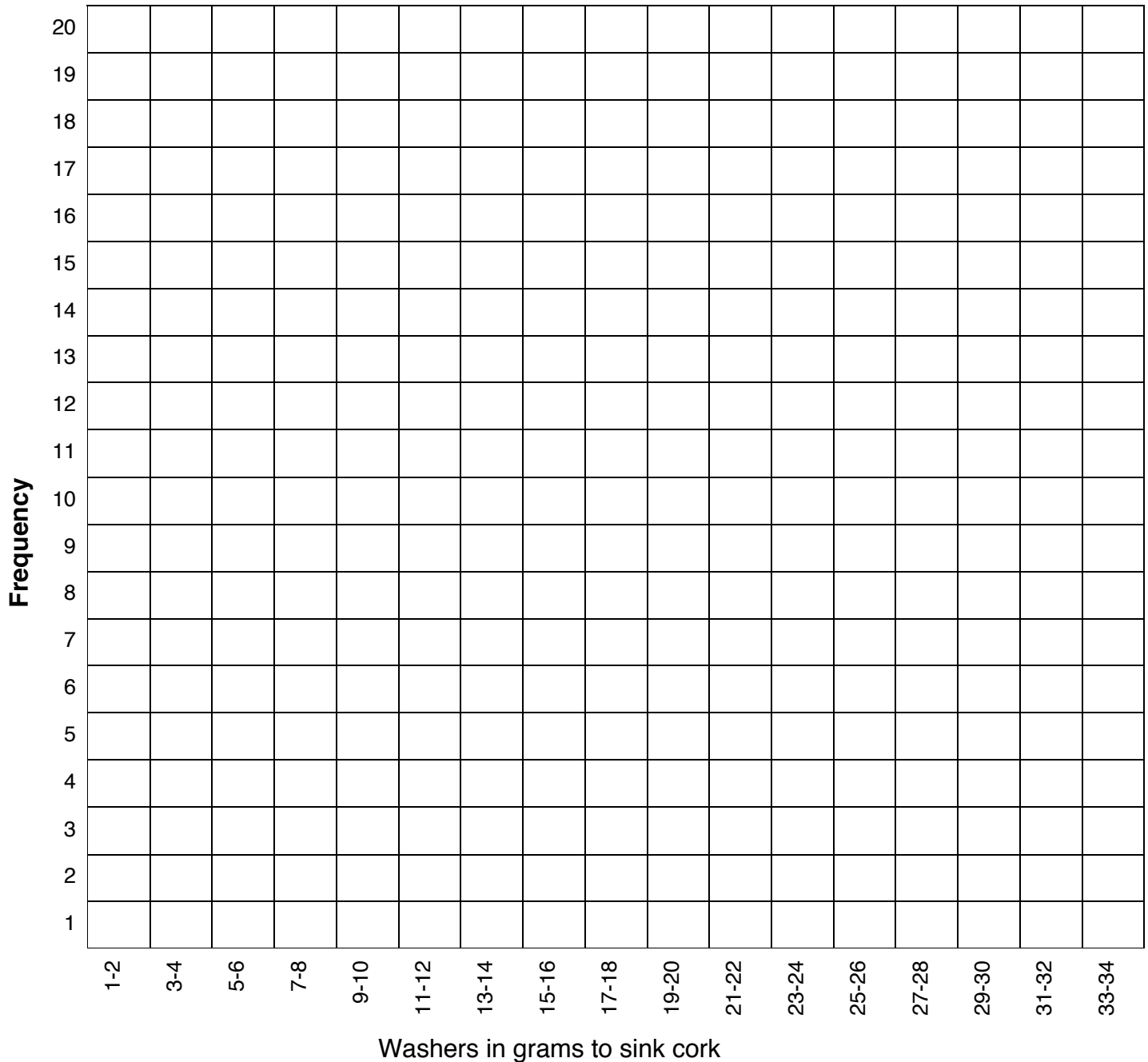
Cork	Description of cork (both descriptions should be the same)	Number of washers needed to sink cork	Mass of Washers	Mass of Cork, Paperclip and Washers
1				
2				

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## Results Graph 3

Place an X in the box above the number of grams of washers it took to sink your cork. If you have a decimal point, round to the nearest whole number.



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### Student Sheet #7: Marine Snow Lab Proposal

You will need to communicate your model to your research team in the form of a lab proposal. Your proposal should include:

- Your final procedure (the procedure from the second investigation with any changes needed to obtain more reliable data)
- A list of the different variables that you needed to control
- A list of all the sources of error that you identified.
- Your evidence that the procedure produces reliable data

#### Procedure:

#### Controlled Variables

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**Sources of Error**

Blank area for writing sources of error.

**Evidence of Reliable Data**

Blank area for writing evidence of reliable data.