

Name \_\_\_\_\_

Date \_\_\_\_\_

## Refining Valve Prototypes

Make a list of the variables in your design process. Circle the ones that you are controlling.

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Draw and label diagrams below that show the materials and amounts used for each prototype.

<p>Prototype 2a</p>          <p>Results:</p>	<p>Prototype 2b</p>          <p>Results:</p>
<p>Prototype 3a</p>          <p>Results:</p>	<p>Prototype 3b</p>          <p>Results:</p>

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# The Design Process

Design and make a valve that allows fluid to pass quickly in one direction, but allows less than 30 mL through every 10 seconds in the other direction.

Draw and label your prototype so someone else could follow your blueprint.

Prototype 1



How well did your prototype meet the design requirements?

Ideas for improving the prototype: