

Name _____

Date _____

Refining Valve Prototypes

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

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>

Name _____

Date _____

The Design Process

Design and build 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 build your design.

Prototype 1



How well did your prototype meet the design criteria within the constraints?

Ideas for improving the prototype: