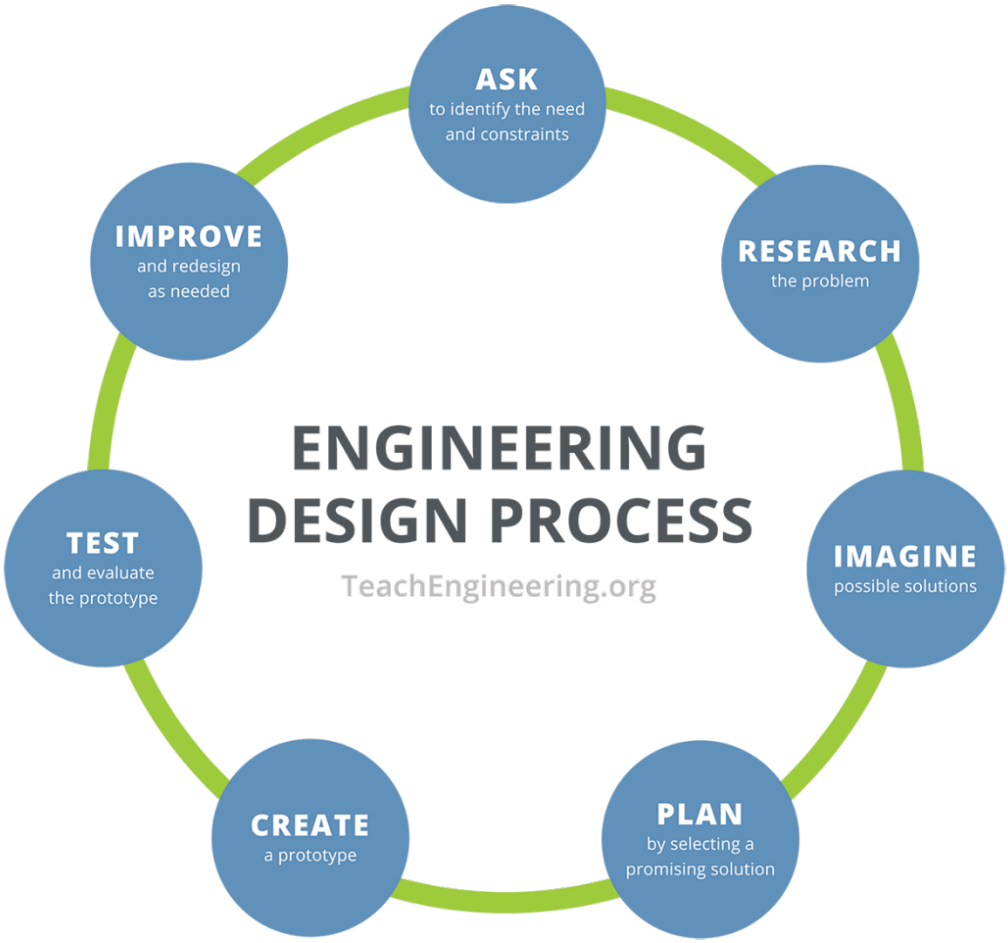
Name: **Date:** **Class:**

Engineering Design Challenge Packet

Instructions: Using the engineering design process, you and your team will act as materials engineers to create a designer slime that satisfies your targeted slime properties.



1. **Ask** – Identify the need/problem and the criteria and constraints of your problem.

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2. **Research** – What do we know about the problem? What do we need to know?

3. **Imagine** – Individually sketch or write down four possible solutions.

a.	b.
c.	d.

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4. **Plan** – Have each team member share their ideas. As a team, select ONE solution. This can be one specific solution or a mixture of ideas. Draw or write your team's solution in the box below. Make sure to identify which materials and how much of each material you will be using.

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5. **Create** – Make your designer slime according to your group's plan.

6. **Test** – Test your designer slime and then answer the following questions.

What worked in your design, and why?

What did not work in your design, and why?

7. **Improve** – Based on your testing, how would you improve your design? Why?

8. **(Optional) Iterate** – Make changes and retest your updated prototype.
Did your changes improve your prototype? How?

What worked in your updated design, and why?

What did not work in your updated design, and why?