

Name:

Date:

Class:

Pre/Post Assessment **Answer Key**

Draw or describe your understanding before starting this project	Important Concept	Draw or describe your understanding after completing the project
	Mechanical Wear	The damage to a surface caused by interaction with another material, such as by rubbing or other abrasive processes.
	Cohesion	The tendency of particles of a single substance to stick together.
	Surface Tension	A property of liquids in which molecules of one substance are more attracted to each other than to molecules of another substance.
	Adhesion	The tendency of particles of one substance to stick to particles of a different, dissimilar, substance
	Abrasion	The wearing, grinding, or rubbing away caused by friction.
	Iterate (the process of iteration)	The process of continual redesign based on testing and refinement of an original design.

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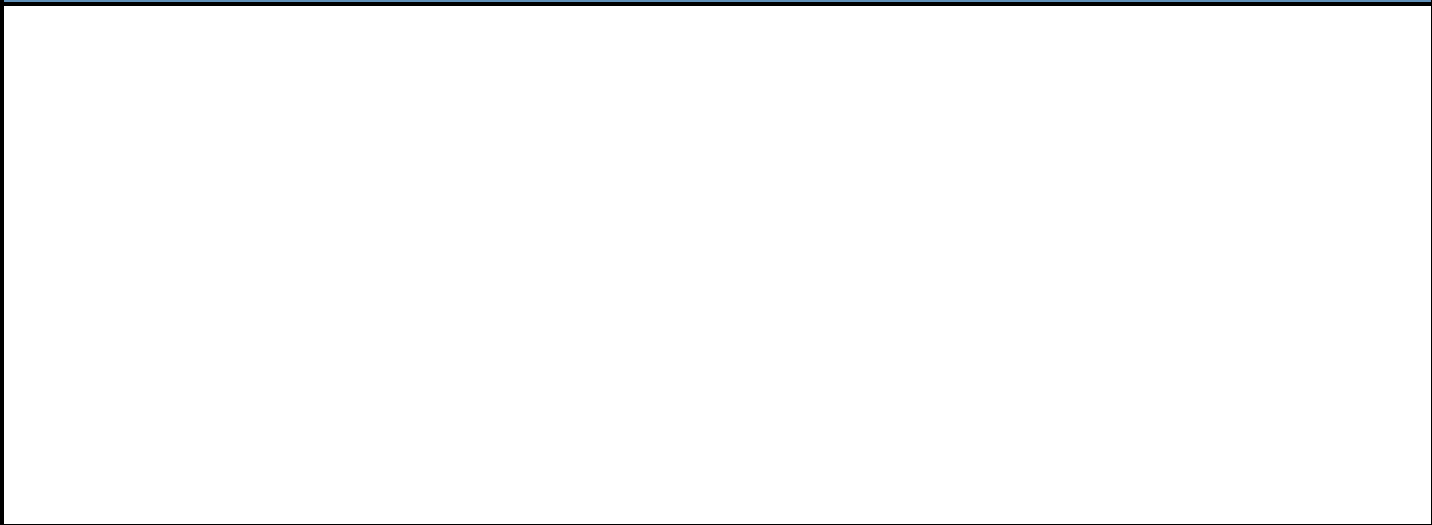
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Design Space!

Based on what you know about teeth and tooth brushing, and what you learned in the reading, sketch an initial design for a new brush for the Colgate Corporation that will minimize the mechanical wear on the tooth enamel while keeping the tooth smooth to prevent adhesion of bacteria. **Be sure to label the parts of your design and explain your reasoning.**

My Initial Design



After you finish prototyping, testing, and iteratively improving your design with your team, draw or describe your final design. **Be sure to label the parts of your design and explain your reasoning.**

Our Final Design

