

Toothbrushes

Link

POS/SOL: SCI 1.1

Marzano Strategy: Generating and Testing Hypotheses

We have been learning how to conduct investigations. Today we are going to generate ideas to design a new and improved toothbrush.

Assessment: Class discussion

Engage and Educate

Why do we use a toothbrush? How do you use it? When do you use it? How is it made? What else can a toothbrush be used for? What could you do to change or modify a toothbrush to make it better? What if you put it through a magic machine and it came out as tall as you, what could you use it for? What if you put it through the machine again and it came out tiny, what could it be used for? What if you took away the bristles?

Assessment: Class discussion

Active Learning

Improve a toothbrush by adding, taking away, substituting, combining, putting it to other uses.
Draw a picture of your idea.

OR

Provide each student with an outline drawing of a toothbrush. Imagine what else this could be. What could it be part of? Add details to the picture to change the toothbrush into something new

Assessment: Completed product

Reflect

Have students share their toothbrush designs with the class.

Now and Then

Today we generated ideas on ways to improve a toothbrush. Throughout the year we will continue to generate as well as test our hypotheses while conducting experiments.