

Engineering Design Toolkit Instructional Guide - Bridge Activity.



Figure 1: Golden Gate Bridge in San Francisco, California.

Problem Description

Sam is driving a monster truck to his friend's house when he encounters a river on his way there. He has hired your team of engineers to design and build a 3ft long bridge that will allow Sam to cross the river safely. Your task is to use the materials provided and the engineering design process to successfully build a bridge that does not collapse when Sam's monster truck crosses your bridge. Remember his safety is in your hands.



Figure 2: Materials Needed for the Bridge Activity

Engineering Design Process

Use the engineering design process below to help your team of engineers design and build a bridge allows Sam to cross the river safely.

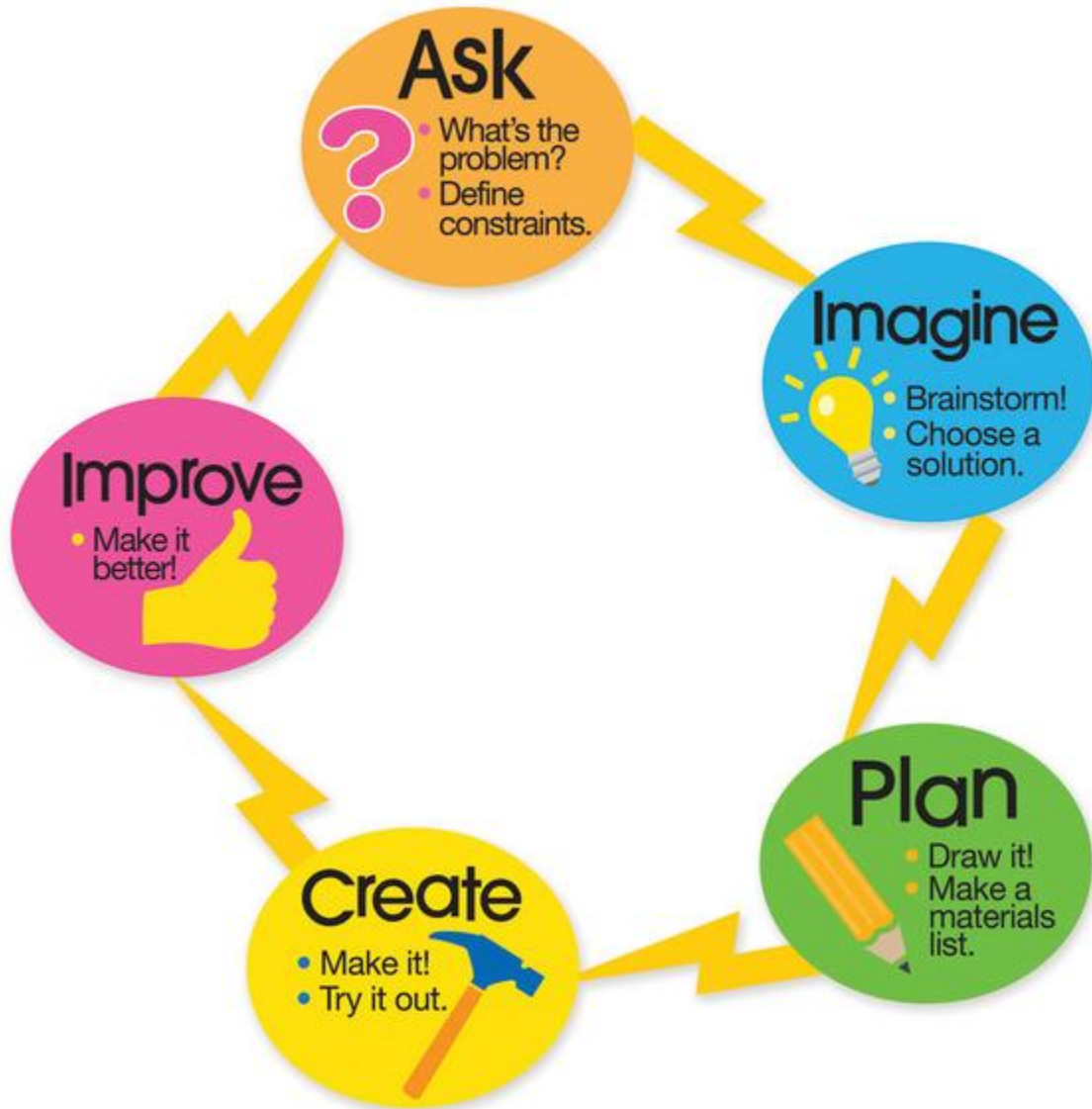


Figure 3: Engineering Design Process

Source: <http://shop.dowlingmagnets.com/p/engineering-design-process-magnets>