

SKETCHING PROBLEM SOLVING

The six simple machines are around us and used by us daily in our everyday lives. They are:

Lever - Inclined Plane - Wheel and Axle - Screw - Wedge - Pulley

Task:

STEP 1: Draw a sketch of each of the simple machines as best as you can you can. You may include items it may be associated with, such as a lever is often shown with a fulcrum, or a wedge is usually shown within a piece of wood, or a pulley often has a rope attached around it, etc.

STEP 2: Analyze the two Rube Goldberg designs below to determine their function (what are they supposed to do?) and how they would actually work if in real life, be able to point out all simple machine used in the design. Be prepared to write the description in writing on one page

STEP 3: Draw a sketch which connects all six machines together to perform a task of your choice

STEP 4: Draw a sketch to solve a given task by the teacher using all six machines at least once in the design

