

SIX SIMPLE MACHINES OBSTACLE COURSE PLANNER

Simple Machine	Diagram How will the obstacle look?	Obstacle Description How will the obstacle be used?
 <p data-bbox="212 716 415 747">Inclined Plane</p>		
 <p data-bbox="277 951 354 982">Lever</p>		
 <p data-bbox="272 1182 358 1213">Pulley</p>		
 <p data-bbox="272 1417 358 1449">Screw</p>		
 <p data-bbox="261 1648 367 1680">Wedge</p>		
 <p data-bbox="212 1900 415 1932">Wheel & Axle</p>		

SIX SIMPLE MACHINES OBSTACLE COURSE GUIDELINES

Complete your work with a partner. Each group will turn in one project with one set of written information.

- 1) Design an obstacle course with a minimum of six parts.
- 2) Each part must represent the use of a different simple machine.
- 3) Complete the Obstacle Course Planner, detailing what each of the six events will look like and how it will be used.
- 4) Build a model representing your plan. Requirements:
 - a. Your model must be three-dimensional
 - b. All six simple machines must be represented in a minimum of six separate tasks on the obstacle course.
 - c. Models must be built on a sturdy base no smaller than 12"x12", and no bigger than 24"x24".
 - d. Obstacle course events representing the six simple machines may be constructed from any material, but must be originally created by you. (In other words, you may not use a toy slide, bicycle, wheelbarrow, etc.) You may use toy people, trees, or other decorations if you wish.
 - e. You must provide the materials necessary to construct your obstacle course, and bring them to class when needed.
 - f. You must submit your completed obstacle course on the due date, along with the Obstacle Course Planner, and a 1-2 page description of the instructions for running the obstacle course. The instructions must be ordered sequentially and detail the information that contestants need. Example of race rules:

First event: Contestants race from the starting line to the ramp. They pick up a skateboard and ride to the top of the ramp, where they take a flag and attach it to their belts. They will then sit on the skateboard, and ride it down the ramp. Contestants will then race to the second event.
- 5) Work will be assessed by a rubric scoring the obstacle course, planner, and written instructions.