

Machine Book

What: A book that will show you understand the concepts on section 4 of chapter 14, what is a simple machine?

What your booklet should show you learned:

1. What each of the six machines physically look like, the parts (if any) that comprise it, and how it works.
2. Show that you understand the relationship of force and distance in each machine.
3. Show that you understand how machines make life easier.

Requirements

1. At least one page for each simple machine.
2. Each simple machine defined.
3. A diagram drawn and labeled for each simple machine.
4. At least 2 pictures of each machine.
5. A page covering compound machines.
6. A page with your design for a compound machine that: will move a milk carton 3 meters (10 ft) across a floor and up onto a desk.
 - A. Label the machines in your design, if necessary add dimensions.
 - B. Design must include at least 2 of the following: lever, pulley, wheel, or inclined plane.
 - C. You cannot use a motor or touch the milk carton with your hands but you can use muscle power to run the machines.
7. Some reference to 1 or more scientists or inventors who have influenced machine use or design.

Criteria for your booklet.

1. Be neat and presentable
2. Show original thinking; is creative and interesting.
3. Diagrams or pictures should add to the quality and effectiveness of your message.
4. Be organized and not list like(details should be woven into the main idea)
5. Should have a logical sequence that shows you understand the concepts.
6. Should have supporting details that communicates well and accomplishes your purpose.

**Extra Credit: Build your design (you get credit even if it doesn't work.)
Fold (hamburger) and Staple 4 papers together**

Table of Contents

- 1. Be Creative on this page**
- 2. Table of contents**
- 3. Lever**
- 4. 1st Class**
- 5. 2nd Class**
- 6. 3rd Class**
- 7. Wheel and Axle**
- 8. Inclined Plane**
- 9. Wedge**
- 10. Screw**
- 11. Pulley**
- 12. Compound Machine**
- 13. My design**
- 14. Scientist/Inventor**