

Technology Learning Outcomes
Grade 8

Std # Students will:

1. Understand that appropriate materials tools and machines enable us to solve problems, invent and construct prototypes.
2. Understand that engineering design is an iterative process involving modeling and developing technological solutions to problems within given constraints.
3. Realize that ideas can be communicated through engineering drawings, written reports, and pictures.
4. Understand that manufacturing is the process of converting raw materials into physical goods which involves multiple industrial processes.
5. Realize that construction technology involves building structures in order to contain, shelter, manufacture, transport, communicate and provide recreation.
6. Understand that transportation technologies are systems and devices that move goods and people from place to place across or through land, air, water, and space.
7. Identify and explain the steps in the engineering design process.
8. Identify the five elements of the universal systems model.
9. Identify and explain the difference between simple and complex machines.