

**Lesson 1.1 What Is Engineering? – Key Terms**

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| Agriculture | The raising of crops and animals for food, feed, fiber, fuel, or other useful products. |
| Artifact | A human-made object. |
| Biotechnology | All the technology connected with plant and animal life. |
| Communication | The transmission of information through a common system of symbols, signs, behavior, speech, writing, or signals. |
| Construction | The act or process of building, erecting, or constructing buildings, roads, or other structures. |
| Energy | The ability to do work. Energy is one of the basic resources used by a technological system. |
| Engineering | Using technological and scientific knowledge to solve practical problems. |
| Environment | The surroundings in which a person, animal, or plant lives. |
| Ergonomics | The study of workplace equipment design or how to arrange and design devices, machines, or workspace so that people and things interact safely and most efficiently. |
| Industrial | Of, relating to, or resulting from industry. |
| Innovation | An improvement of an existing technological product, system, or method of doing something. |
| Invention | A new product, system, or process that has never existed before, created by study and experimentation. |
| Manufacturing | The process of making a raw material into a finished product; especially in large quantities. |
| Math | The science of patterns and order and the study of measurement, properties, and the relationships of quantities using numbers and symbols. |
| Nanotechnology | The science and technology of building devices, such as electronic circuits, from single atoms and molecules. |
| Process | Human activities used to create, invent, design, transform, produce, control, maintain, and use products or systems; a sequence of actions that combines resources to produce an output. |
| Science | The study of our natural world through observation, identification, description, experimental investigation, and theoretical explanations. |
| System | A group of interacting, interrelated, or interdependent elements or parts that function together as a whole to accomplish a goal. |
| Technology | The way people use resources to meet their wants and needs. |
| Transportation | The process by which passengers or goods are moved or delivered from one place to another. |