

## • TECHNOLOGY •

When people use knowledge, materials, and tools to create products or services that meet their wants and needs, they create **Technology**.

**Technology** is the **means by which we try to improve our people-made world**. Technology can be found throughout everything we do in our lives.

### Using **Knowledge** to **Control** the **Environment**

- **Knowledge:** What you know
- **Control:** Power over something
- **Environment:** Things around us, our surroundings.

### The Four Families of Technology

**Communication Technology** - Helps gather, store, and share important information. Allows us to communicate ideas clearly and quickly across long distances.

**Production Technology** - Provides us with **Manufactured** and **Constructed** products we use each day.

- **Manufacturing** (built in a factory) = Automobiles, furniture, iPods, and clothes.
- **Construction** (constructed on site) = bridges, roads, amusement parks, and buildings.

**Transportation Technology** - Products, materials, and people can be sent quickly anywhere in the world through a complex system of transportation technologies.

**Biotechnology** - The newest technology family member. Biotech is the use of living cells to create new products. Genetic engineering allows us to change the characteristics of plants and organisms (tomato that repels worms or a vaccine that protects people from cancer).

Science and Technology are very different subjects.

**Science** is the study of our **natural world** - biology, physics, chemistry, and earth science.

**Technology** is the study of our **people-made world**

Technology and Science are most powerful when they work together, hand in hand with the results being incredible (pacemaker).

On the back of this paper list: 10 types of Communication, 10 Manufactured products, 10 Construction projects, and 10 methods of Transportation.