Wendy Chen

**Technology:**

 The term "technology" is applied to the tools, machines, and processes that use scientific advances in practical applications. Historically, it can apply to the tools and techniques employed by earlier human societies. Technology is a very broad concept that deals with human as well as other animals' usage and knowledge of tools, and how it affects a species' ability to control and adapt to the environment. It’s a tool to make a task easier. Technology is like everything that moves and is like science too. Technology is doing stuff.

**Science:**

Science is a way to understand the world by carefully thinking about it and testing our guesses. It’s the knowledge about or study of the nature world based on facts learned through experiments and observations. Science has everything to do with nature, space, life, animals/humans, and technology. Science is knowing stuff.

**Difference between Technology and Science**

CHART OF COMPARISON BETWEEN TECHNOLOGY AND SCIENCE

 **Science**  **Technology**

|  |  |  |
| --- | --- | --- |
| **Motto** | Science is knowing | Technology is doing |
| **Mission** | The search for and theorizing about cause. | The search for and theorizing about new processes. |
| **Result Relevance** | Making virtually value-free statements | Making virtually value-free statements |
| **Evaluation Method** | Analysis, generalization and creation of theories | Analysis and synthesis of design |
| **Goals Achieved Through** | Corresponding Scientific Processes | Key Technological Processes |
| **Focus** | Focuses on understanding natural phenomena | Focuses on understanding the made environment |
| **Development Methods** | Discovery (controlled by experimentation) | Design, invention, production |
| **Most observed quality** | Drawing correct conclusions based on good theories and accurate data | Taking good decisions based on incomplete data and approximate models |
| **Skills needed to excel** | Experimental and logical skills needed | Design, construction, testing, planning, quality assurance, problem solving, decision making, interpersonal and communication skills |