

WHAT IS TECHNOLOGY?



GROUP ACTIVITY



Before starting any theoretical explanation

I would like you to think of the following questions:

- 1) What is **TECHNOLOGY**? Give a definition of it.
- 2) In your opinion, what is **the difference between technology and science**?
- 3) In general, **what does technology do for us**?
- 4) Look around **the classroom**. What technologies do you see?
- 5) What **technologies** do you have **at home**?
- 6) How do these technologies **solve problems and make your lives easier**?

WHAT IS TECHNOLOGY?

It is the **application of knowledge to the practical aims of human life.**

Technology includes the use of materials, tools, techniques, and sources of power **to make life easier or more pleasant and work more productive.**

We apply technology in almost everything we do in our lives, we use technology **at work**, we use it **to extract materials**, we use technology **for communication, transportation, learning, manufacturing, creating artifacts, securing data** and so much more.



WHAT IS THE DIFFERENCE BETWEEN SCIENCE AND TECHNOLOGY?

Whereas **SCIENCE** is concerned with **HOW** and **WHY** things happen, **TECHNOLOGY** focuses on **MAKING THINGS HAPPEN**.

Technology is also an application of science to solve a problem.

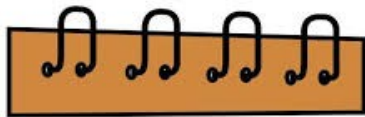
But what you have to know is that **technology** and **science** are **different subjects which work hand-in-hand to accomplish a specific task or solve a particular problem.**

As humans, we use both technology and science together, that is why we confuse these two to be the same. **Science deals with the knowledge of the natural world** whereas **technology refers to the human-made world determined by processing, development and management.**

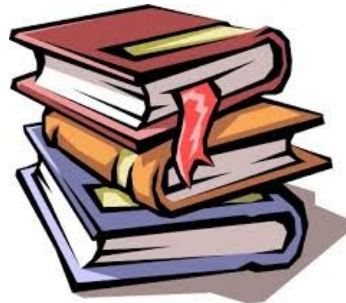
WHAT IS THE DIFFERENCE BETWEEN SCIENCE AND TECHNOLOGY?

| | SCIENCE | TECHNOLOGY |
|-------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| MOTTO | Science is knowing . | Technology is doing . |
| MISSION | theorizing about cause. | theorizing about new processes. |
| EVALUATION METHODS | Analysis, generalization and creation of theories. | Analysis and synthesis of design. |
| FOCUS | understanding natural phenomena. | 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. |

TECHNOLOGY IN THE CLASSROOM



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WHAT CAN TECHNOLOGY DO FOR US?



WHAT CAN TECHNOLOGY DO FOR US?

- Technology is one of the main ways we change the world. **Whether it's a complex technology like the internet, or simple technology like the wheel, one of the basic elements of human civilization is that we use technology.**
- But it's not a one-way street. The moment a new technology was born, it also has an effect on us. **Our lives change as a result of our technologies**—they may become longer, healthier, and more productive; they may also become more anxious, self-centered, and destructive. Technology may help us stay more connected with the people we love, but it also enables us to stay more connected with our work.
- It's not so much a question of whether we govern our technology or our technology governs us; it's more a **recognition that our relationship with technology, and with other human beings and the planet through technology, is complicated.**

ADVANTAGES AND DISADVANTAGES OF TECHNOLOGY

Technology is good because **it simplifies the way we do things in our daily lives, however, if technology is wrongly applied, it can be harmful in so many ways.** Technology is developed by humans, so we can use it to accomplish almost every task; it makes the impossible look possible.



Easy access to information.

Innovation and creativity.

Better communication.

Convenience of travelling.

Better housing and lifestyle.

Entertainment.

Efficiency and productivity.

Convenience in education.

Changed health industry.



Increased loneliness.

Job loss.

Competency.

World destruction weapons.

HOW TECHNOLOGY HAS CHANGED THE WORLD

Watch the video:

<https://www.youtube.com/watch?v=7o35ruCZ6S4>

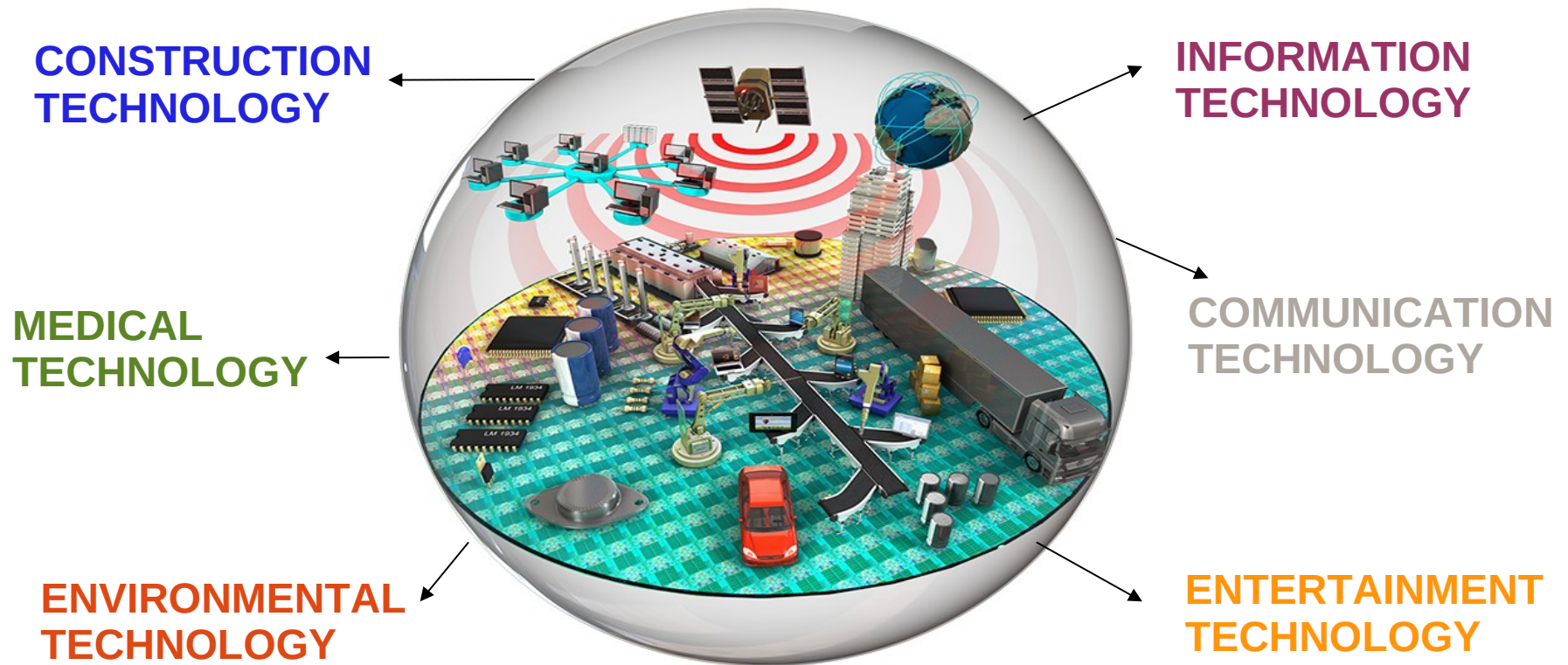
This video has no words but a lot of images.

*Can you think of a paragraph to explain this topic?
What is your personal opinion about technology?*



DIFFERENT TYPES OF TECHNOLOGY

We use technology to accomplish various tasks, so technology comes in different types: information technology, communication technology, bio-related and agriculture technology, medical, environmental, manufacturing and construction, transportation, energy and power, nanotechnology.



YOUR PROJECT WORK:

A PPT PRESENTATION ON SOMETHING THAT HAS CHANGED PEOPLE'S LIVES

Step 1: decide **what field** yo want to investigate.

Sep 2: **find something** (either a product or a theoretical discovery) that has improved people's lives and state:

- **when** is was created/discovered.
- **who** created/discovered it.
- for **what purpose** it was created/discovered.
- **why** it has improved people's lives.

Step 3: identify **both strong and weak points** of the technology you chose and explain why.

Step 4: if you had the possibilities to make some changes or improvements, what Would they be?**Imagine possible evolutions** to improve your product/invention And to reduce its negative aspects.

**I'M SURE
YOU'LL TRY YOUR BEST
AND YOU'LL BE
VERY HAPPY
AT THE END OF
THIS ACTIVITY!**

