

Branches of Science – Quick & Fun Guide

Main Idea

Scientists study the world using tools like **microscopes** and **telescopes**. They ask questions, test ideas (called **hypotheses**), and sometimes discover **laws of science**! Science is like a big tree with 3 main branches:

Physical Science – *How things work*

This branch is all about **energy and matter**—how things move, light up, and make sound!

What you study:

- Electricity ⚡
- Light 💡
- Gravity 🌍
- Motion 🚗
- Sound 🔊
- Force, waves, and machines

Jobs you can do:

- Astronomer (studies stars!)
- Engineer (builds cool stuff)
- Mechanic (fixes things)
- Physicist (figures out how the universe works)

Earth Science – *All about the Earth and space*

This branch studies the **planet, weather, rocks, and stars**!

What you study:

- Geography 🗺️
- Weather ☁️
- Rocks and minerals ⛏️
- Planets and stars ☀️

- Landforms like mountains and volcanoes 🌋

Jobs you can do:

- Astronaut 🚀
- Geologist (studies rocks)
- Meteorologist (talks about weather)
- Paleontologist (studies fossils and dinosaurs!)

Life Science – All living things

This is the science of **plants, animals, cells, and how living things behave!**

What you study:

- Cells (tiny parts of your body)
- Animals and plants 🐶🌱
- Habitats (where living things live)
- Behaviors (what they do)

Jobs you can do:

- Zoologist (studies animals)
- Anatomist (studies how bodies work)
- Botanist (studies plants)
- Geneticist (studies DNA and traits!)

Key Terms and Definitions

Term	Definition
Science	The study of the world around us using observation and experiments.
Hypothesis	An idea or guess that scientists test through experiments.

Scientific Law	A rule that explains how something in nature always works the same way.
Physical Science	The branch of science that studies energy, matter, and how things move.
Earth Science	The branch of science that studies Earth, weather, rocks, and space.
Life Science	The branch of science that studies living things like animals and plants.
Microscope	A tool used to see tiny things like cells.
Telescope	A tool used to see far-away things like stars and planets.
Cells	The smallest building blocks of all living things.
Ecosystem	A community of living things and their environment.