

Science

Science is the systematic study
of the natural world

Its also fun, exciting and
important





What is science?

- Questions

- What is stuff made of?
- Why does it have that colour/ smell/ feel/ texture/ weight/ flexibility?
- What happens to it when I heat it up?
- Or cool it down?
- Or when I mix it with something else?
- Or when I put an electric charge on it?
- Or exert a force on it?

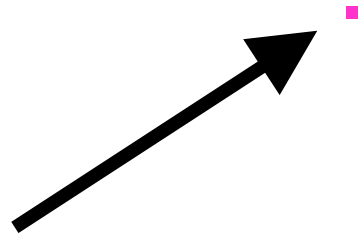
Three main branches

- Chemistry
 - Biology
 - Physics
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- But there are many others

Chemistry

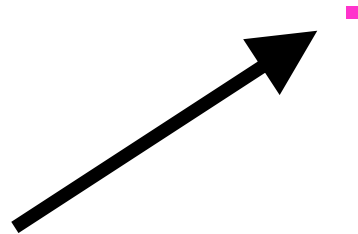
Chemistry

- Atoms (building blocks)



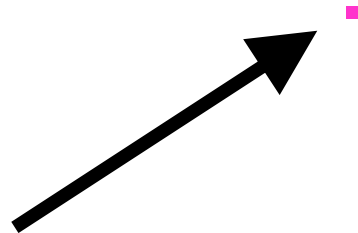
Chemistry

- Atoms (building blocks)
- Molecules



Chemistry

- Atoms (building blocks)
- Molecules
- Reactions

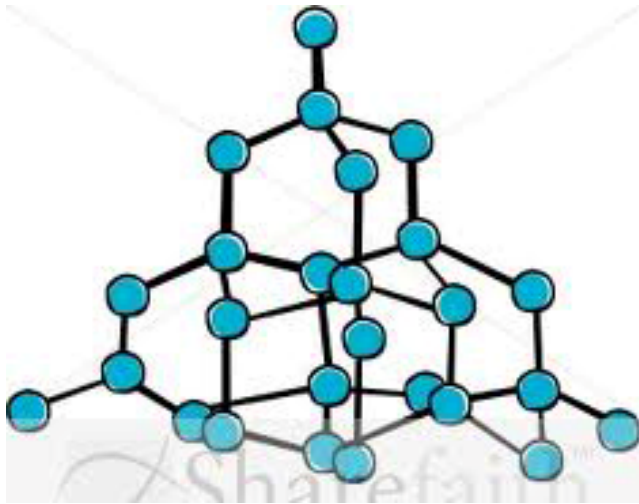


Hydrogen + Oxygen = Water



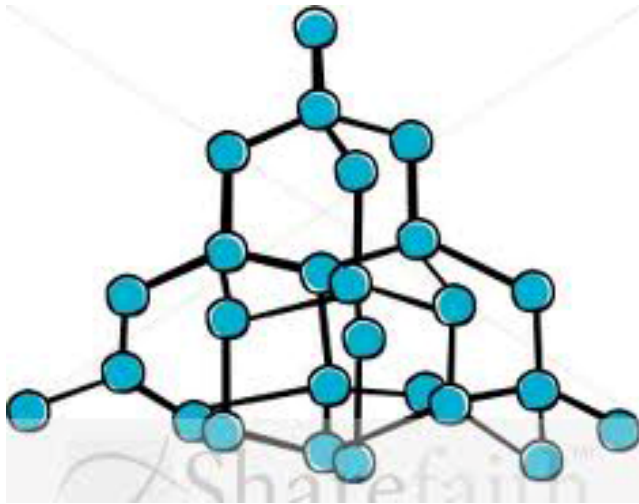
Carbon

Diamond

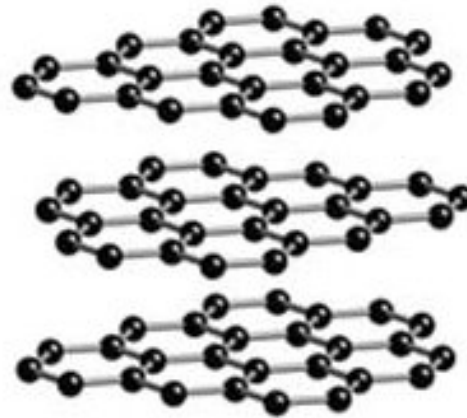


Carbon

Diamond



Graphite

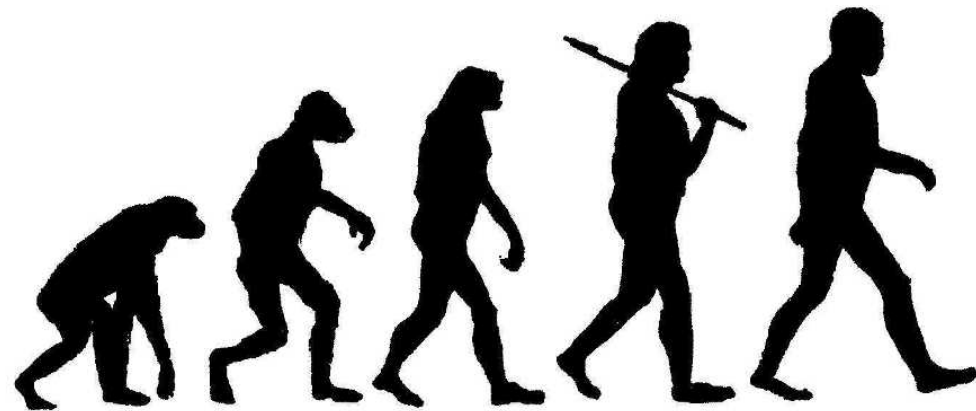
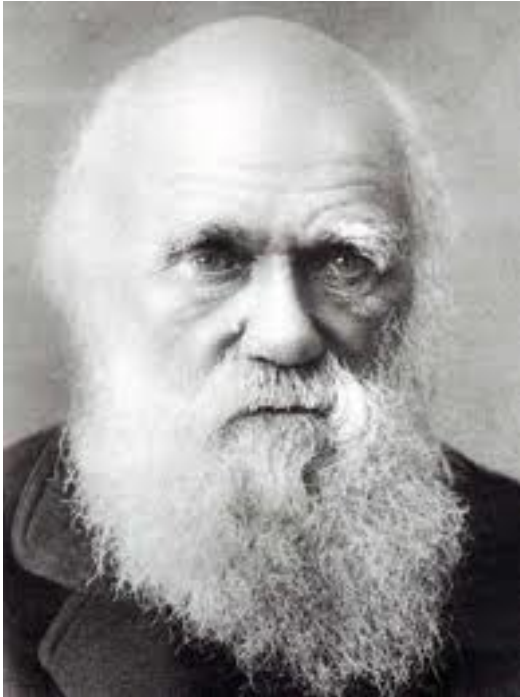


Biology

Biology

- Humans
- Animals
- Fish
- Plants
- Evolution

Evolution



Physics

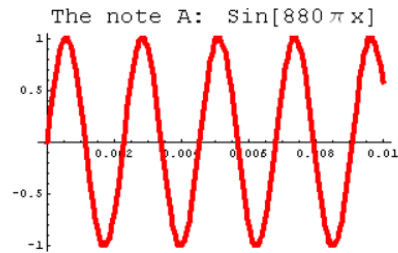
- Sound
- Light
- Heat
- Electricity
- Magnetism
- Forces

Physics

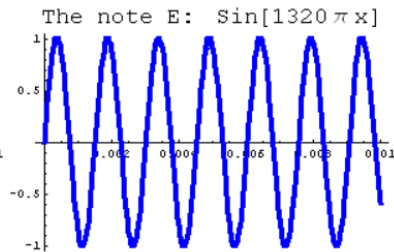
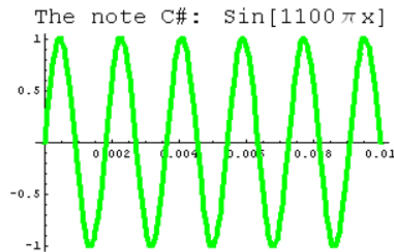
- Sound
- Light
- Heat
- Electricity
- Magnetism
- Forces

Energy

Sound and light

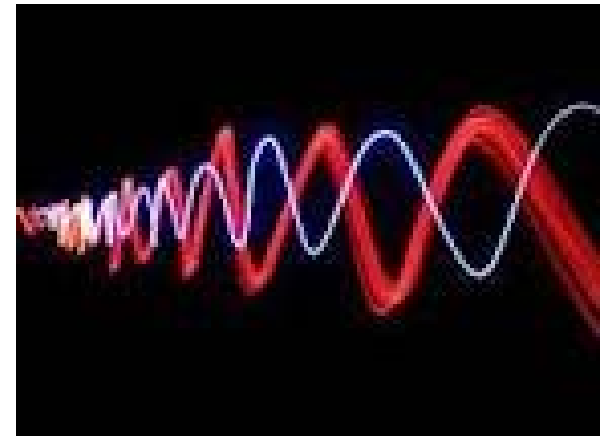


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Sound wave

Sound travels at 700 mph



Light wave

Light travels at 186,000 mph!

Physics in action: lightning storm



Others

- Earth Science/Geology
- Environmental Science
- Ecology
- Zoology
- Botany
- Archaeology
- Psychology
- etc.

Earth Science/Geology



Science is all mixed up!

- DNA – vital molecule for all living things



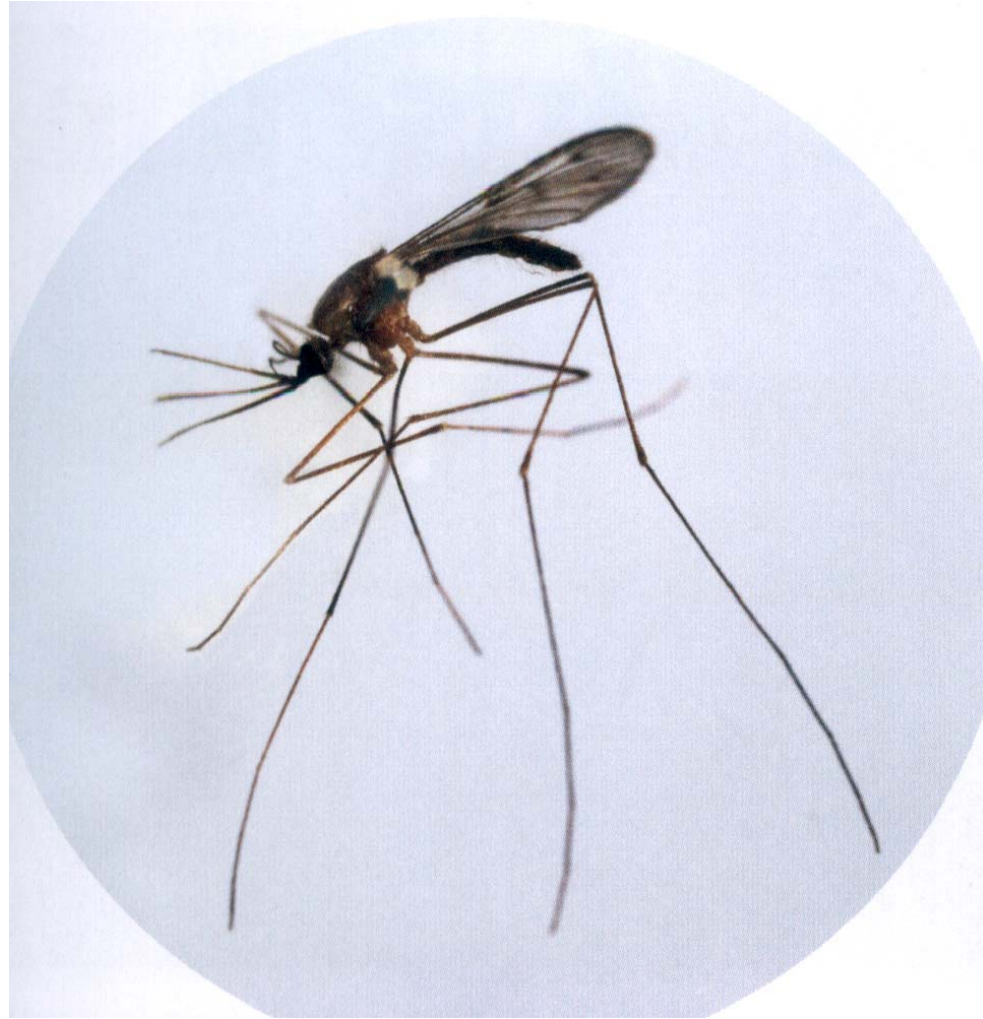
What do scientists do?

- They work in
 - Universities
 - Medicine
 - Chemical laboratories
 - Food science laboratories
 - On oil rigs
 - For the government
 - At the rubbish dump!
 - In supermarkets
 - In the field (finding new resources, e.g. oil, gas, metals, coal)
 - Discovering new species (biology), new minerals
 - Making new materials for medicine, for agriculture, for environmental protection
 - Studying the planets, e.g. Mars

Example from the South Pole ☺



Who likes mosquitoes?



Who'd like to go to Mars?

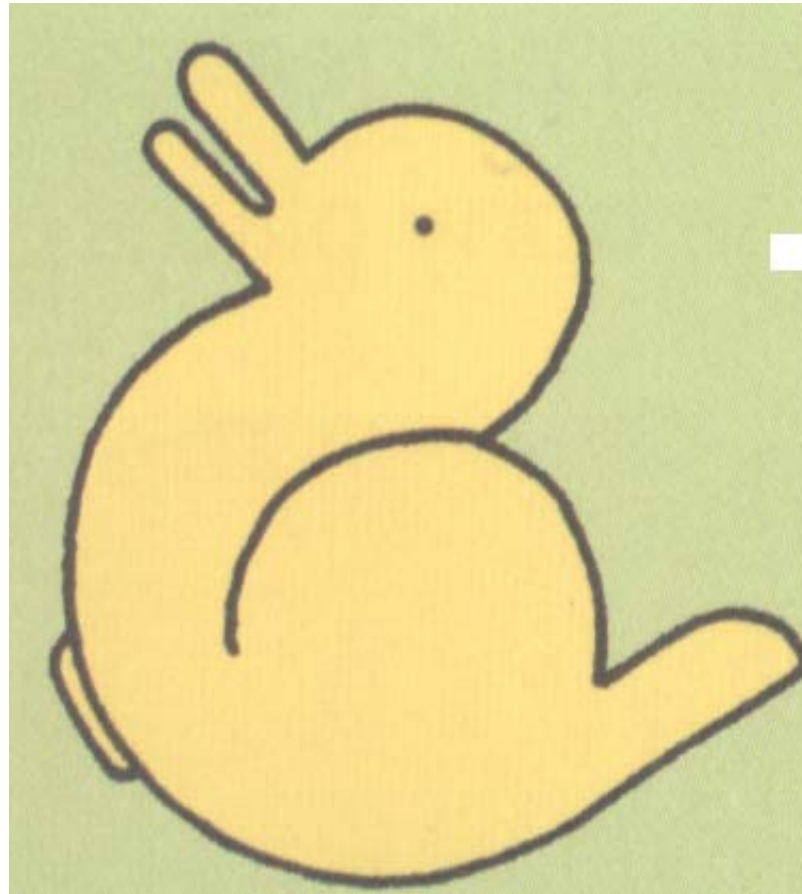


Food science



k8171126 www.fotosearch.com

Science of the mind



What should I do if I'm interested in science?

- Borrow science books from the library
- Watch science programmes on TV
- Find good science websites on the internet
- Study your mathematics and science at primary and secondary school level!
- Do your own research to find the answers to scientific questions
- Loads of fun and interesting jobs to do in science

Homework!

- What is this?



Thank you!

