

Essentials for science

Essential Notes The three major categories of science are:

- Life science
- earth science
- Physical Science(studies matter and energy)

Lab Safety

- make sure you are following all of the common sense lab safety rules some of these may be:
- listening to the instructor and read the procedure
- Keep food and drinks outside of the lab
- No horseplay

CER A CER is a statement on a certain opinion on a subject and you're trying to support it with Evidence and reasoning

- C is for claim: answers the original question
- E is for Evidence: data to support the claim
- R is for reasoning: it explains and proves your thinking

Conversions things to keep in mind about conversions:

- Mass is how much matter is in an object
- density is how much mass per volume there is in a material
- Its found by dividing the objects mass and volume
- density measurements are one gram per cubic centimeter
- volume is the amount of space occupied by an object

Geps

volume=mass/density
mass=volume(times)density
density=mass/volume

Atoms, Atoms Everywhere

basic parts of an atom

- the nucleus has a positive charge
- protons have a positive charge
- neutrons have a neutral charge
- electrons have a negative charge
- energy levels: the rings around the nucleus

Bohr Model

energy level:

- first one: holds up to 2
- second electron hold up to 8
- third electron holds up to 16

Isotopes

finding Isotopes

electron arrangements

electrons organized