# Introduction to Matter Chapter 1



How is matter described?

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# Describing Matter Section 1-1



What properties describe matter?

# What properties describe matter

## Matter is anything that has mass and takes up space

All the "stuff" around you (air, plastic, wood, glass, paper..)

Matter can have different properties or characteristics used to
describe and classify it

Chemistry is the study of matter and how matter changes

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### **Substances**

Some types of matter are substances and other are not Substance is a single kind of matter that is pure; always in a specific makeup or composition

ex. Table salt (NaCl)



same composition whether it came from a salt mine or the ocean





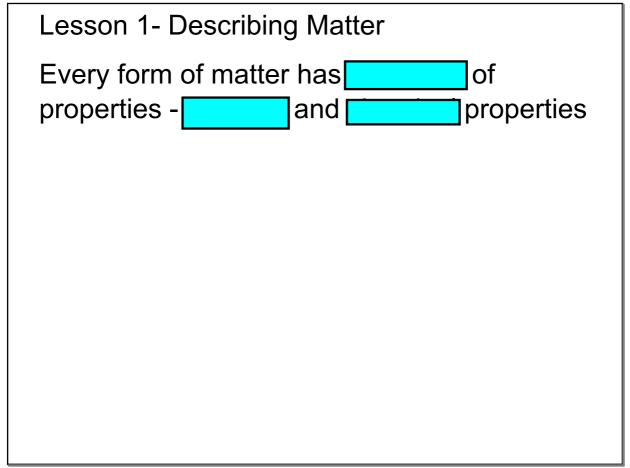
Physical and chemical properties of matter

Every form of mater has 2 kinds of properties - physical and chemical

Physical property - a characteristic of a substance that can be observed without changing into another substance ex. color, state of matter, conductivity, shape, density, malleability, ductility, volume, mass

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Chemical property- is a characteristic of a substance that
describes its ability to change into a different substance
can't always be seen or touched
needs a chemical reaction to see it change
ex. reactivity (baking soda and vinegar)
flammability (burning a match)
Physical and chemical properties are used to classify matter



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