

Intro – What is Chemistry?

Chemistry gets its roots from a “science” called Alchemy
Alchemists were known for trying to create gold from common metals

Chemistry is a physical science that studies matter and its changes

A chemist could study...

How many atoms are in a grain of sand?

What metals react violently with water?

At what temperature does ice melt?

1

Intro – What is Chemistry?

Branches of Chemistry

1. **Organic Chemistry**: the study of most carbon containing compounds.
2. **Inorganic Chemistry**: the study of all substances not classified as organic.
3. **Physical Chemistry**: the study of the properties & changes of matter and their relation to energy.

2

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Branches of Chemistry

4. **Analytical Chemistry**: the identification of the components & composition of materials.
5. **Biochemistry**: the study of substances and processes occurring in living things.
6. **Theoretical Chemistry**: the use of mathematics & computers to understand the principles behind observed chemical behavior and to design and predict the properties of new compounds.

3