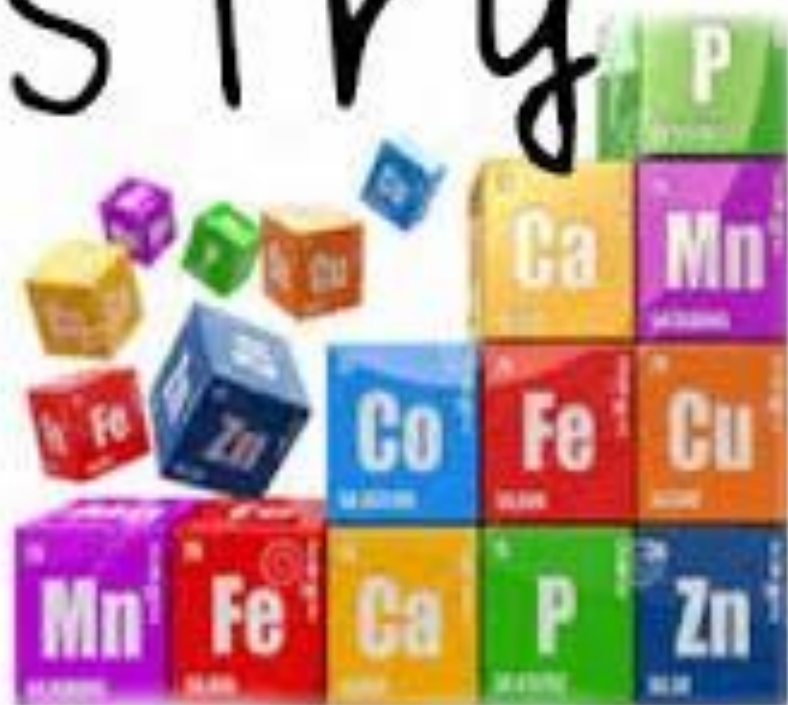




Chemistry



VOCABULARY

chemistry – химия

branch – отрасль

science – наука

substance – вещество

research – исследование

properties – свойства

reaction – реакция

signs – признаки

distinguish – выделить

amount – количество

flammability – воспламеняемость

rusting – ржаветь

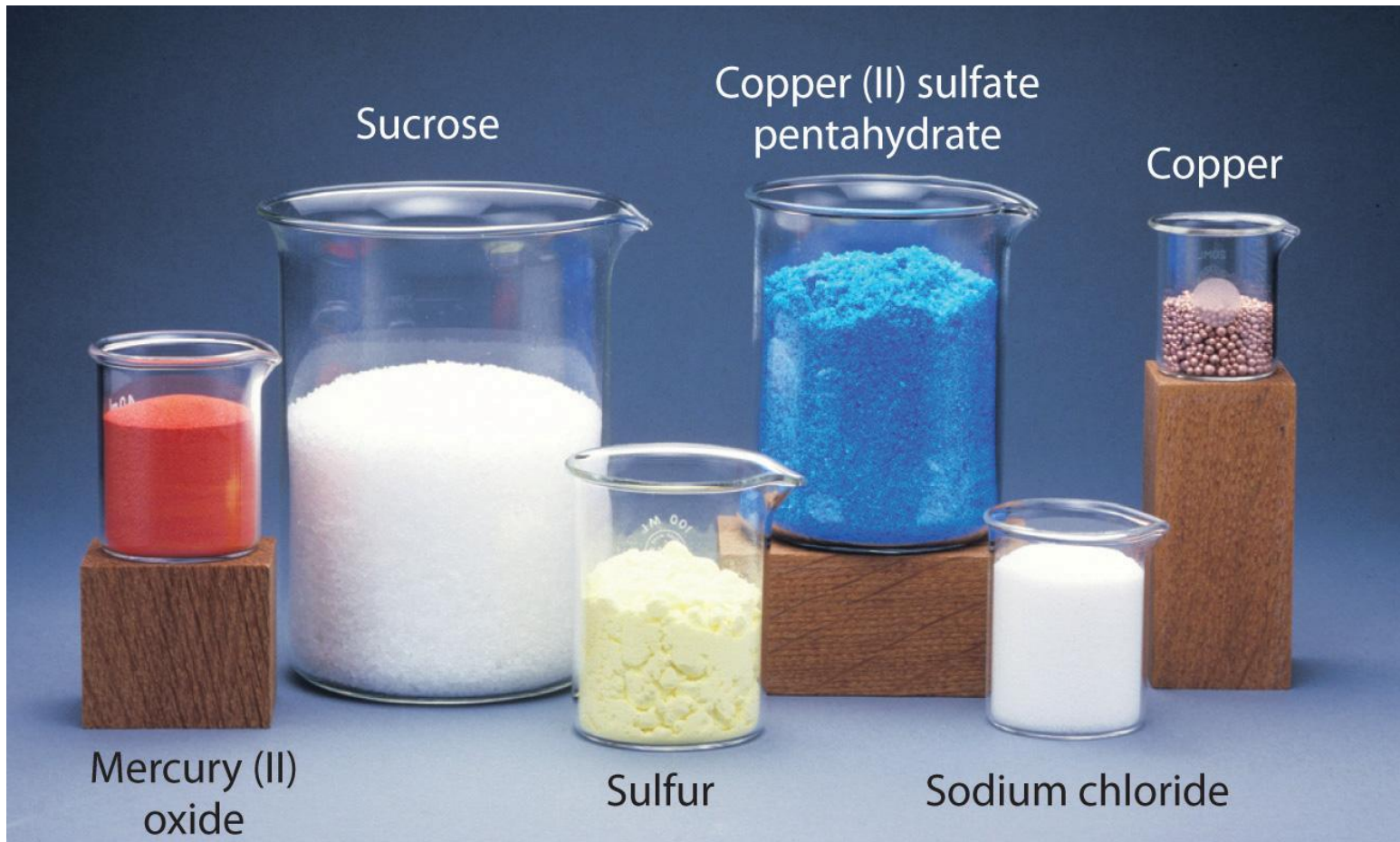
elements – элементы



Chemistry is the branch of science concerned with the substances of which matter is composed, the research of their properties and reactions, and the use of such reactions to form new substances.



A **substance** is matter which has a specific composition and specific properties.



Properties are signs that distinguish certain substances from others



Physical vs. Chemical Properties



• Physical Properties • Chemical Properties

- Color
- Shape
- Size
- Density
- Amount
- Volume

- Flammability
- Rusting
- Burning
- Corrosion
- Reactivity





original



dissolving



heated



burned



frozen

Two Types of Pure Substances

- Elements

- One type of atom
- Type of atom determines its properties entirely.

1 Sodium

+

1 Chlorine



- Compounds

- One set ratio of specific types of atoms.
- Type of atoms **and** their ratio determines its properties entirely.

1 Sodium Chloride



Notes

- **Dimitri Mendeleev** is credited with organizing the elements into the first **periodic table**.
- The main properties that Mendeleev used to sort the elements were **reactivity** with one another and a number describing the **atomic weight** of each element.

<i>Be</i>
<i>Mg</i>
<i>Ca</i>
<i>Sr</i>

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Thank you
for your
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