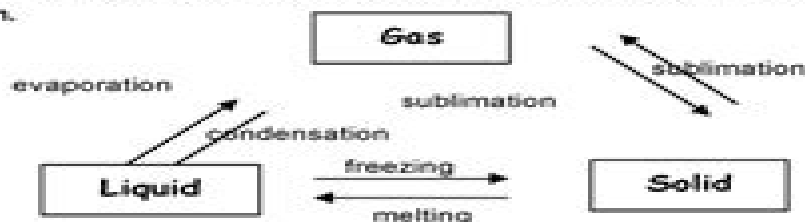


Chemistry & Matter

What is chemistry? *The study of matter and the changes it undergoes.*

1. Matter is anything that has mass and occupies space. Matter can exist in any one of three states: *solid (s), liquid (l) and gas (g).*

Add the following labels in the appropriate places: evaporation, condensation, melting, freezing, sublimation.

Particle Theory of Matter

1. All matter is made up of tiny particles.
2. All particles of a pure substance are identical.
3. The space between particles is large compared to the sizes of the particles themselves.
4. Particles of matter are always moving.
5. There are forces of attraction that exist between particles.

Describing and Classifying Matter

1. Distinguish between a physical change and chemical change.

**Physical change**- change that affects the physical appearance but not its composition (change of state, form, dissolving)

**Chemical change**-occurs when a new substance with new physical and chemical properties are formed. Clues that a chemical change occurred are: new colour, gas formed, precipitate, or heat/light is given off or heat is absorbed.

2. Classify each situation as either a physical change or a chemical change. Explain your reasoning.
- (a) Rose bush from a seed that you have planted and nourished - Chemical change
  - (b) A green coating forms on a copper statue when the statue is exposed to air - Chemical change
  - (c) Your sweat evaporates to help balance your body temperature - Physical change
  - (d) Frost forms on the inside of a freezer - Physical change
  - (e) Salt is added to clear chicken broth - Physical change
  - (f) Your body breaks down food you eat to provide energy for your body's cells. - Chemical change
  - (g) Juice crystals dissolve in water - Physical change
  - (h) An ice-cream cone melts on a hot day - Physical change

# Grade 10 Chemistry Review With Answers

**Benjamin Lillard**



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points out that the politics of schooling often gets in the way of student progress High stakes standardized testing is frequently based on poorly constructed unfair tests that encourage teaching to the test which actually impedes educational goals Authentic testing relies more on essays and writing samples performances demonstrations and role plays Although it is fairer and provides a measure of student growth and progress it requires more effort by teachers who also require extra training Besides discussing authentic assessment in detail The Assessment Debate includes a chronology an annotated directory of organizations supporting performance assessment a list of state coordinators for testing reform and state by state report cards      **Railway and Locomotive Engineering** ,1918

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