

8th Grade Science Exit Test – Part 2

CELLULAR COMPOSITION & RESPIRATION

1. What makes Chlorophyll?

- Sunlight
- Photosynthesis
- Water

2. What color is Chlorophyll?

- White
- Green
- Red

3. What is needed for photosynthesis to take place quickly?

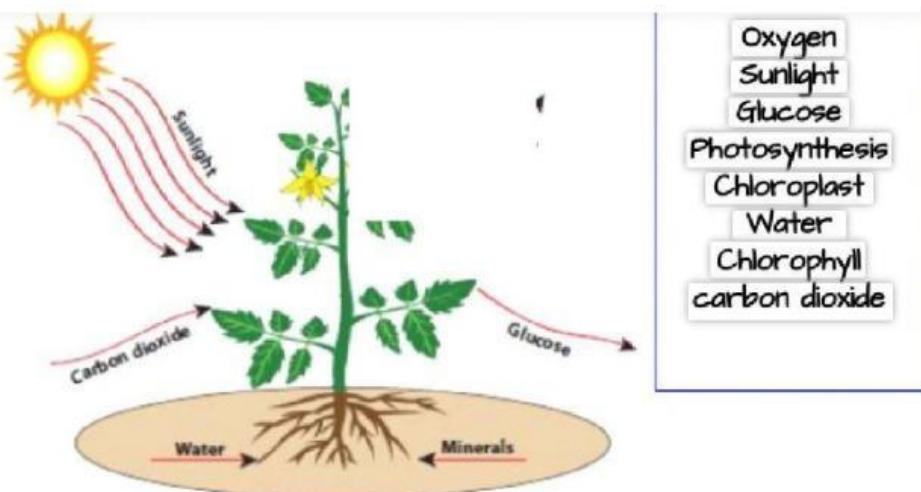
- Snow
- Rain
- Warmth

4. Plants get food from the _____.

5. A plant needs _____ to make food.

6. The speed of photosynthesis depends on the _____.

7.



_____ is the process by which plants produce their own food in the presence of _____, _____ and _____. Photosynthesis occurs in the organelle called _____ that's only found in plants. Plants contain a green pigment called _____ that absorbs sunlight. Energy from the sun, carbon dioxide from the atmosphere and water absorbed by the roots react to produce _____ that plants need to survive. _____ is a gas that is released into the environment for animals and humans to breathe.

8. What is a membrane bound cell that has a true nucleus, cell wall, and chloroplasts that absorb sunlight energy to make food for plants?

- Animal Cell
- Plant Cell
- Cell Membrane

9. What is the watery gel-like substance made of salt and water that provides structure for the cell parts so they can move freely within the cell membrane?

- Cytoplasm
- Chloroplast
- Chlorophyll

10. What controls the functions of a cell?

- Vacuole
- Nucleus
- Ribosome

11. What part of the cell is used for storage of water, food, and waste?

- Vacuole
- Neuron
- Cell Membrane

12. What is made of carbon, hydrogen, and oxygen at a ratio of 1:2:1?

- Lactose
- Carbohydrates
- Lipids

13. What is referred to as the “building blocks of life”

- Lipids
- Proteins
- Acids

14. What does it mean to be “lactose intolerant”?

- Stomach cannot digest milk of any kind
- The body absorbs lactose
- Stomach_cannot_break_down_lactose

CHEMISTRY

1. What are the three states of matter?

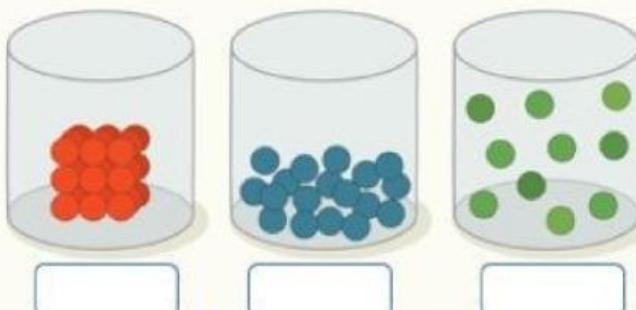
- Oxygen, Hydrogen, and Nitrogen
- Gas, liquid, and solid
- Rain, smoke, fire

2. Particles in liquids are close together but not as close as solids.

3. When particles get more energy they expand.

4.

Label the diagram below with the correct state of matter



Gas

Liquid

Solid

5. What is the fourth state of matter?

Plasma

Fire

Steam

6. What is it called when particles have enough energy to break free of their bonds and turn solids to liquid?

Boiling Point

Melting Point

Evaporating Point

7.

Solid, Liquid, Gas, or Plasma?

Oxygen -

Bricks -

Stars -

Water -

Ice -

Helium -

Milk -

8.

Has a chemical reaction taken place?

1. Water solidifies into ice on a cold day.

Yes

No

2. A glow stick emits light when it is broken.

Yes

No

3. When two liquids are mixed, a blue solid forms at the bottom

Yes

No

4. Condensation forms on a glass on a hot day.

Yes

No

5. Bubbles form when vinegar and baking soda are mixed together.

Yes

No

9. What is the term that is used to describe turning a gas back into a liquid?

- Condensation
- Evaporation
- Melting

10. What is an example of evaporation?

- Melting ice
- A puddle of water drying up
- Rain

11. What is the movement of substance from a high concentration called?

- Osmosis
- Diffusion
- Evaporation

12. Do the following statements refer to DIFFUSION or OSMOSIS?

a. Shaun's plant looked dead but when he watered it, it sprang right back up.

b. The girl sitting two rows ahead of you put on too much perfume this morning.

c. Yum! Something smells good. The neighbours are cooking on the grill!

d. You put raisins in a glass of water, and they plump up.

e. Ronald has his stinky shoes off again, and you can tell from the next room.