

1. diffusion

Molecules spread out from areas where there are many molecules to where there are fewer molecules

2. Is diffusion active or passive?

passive

3. concentration

The number of particles of something in a space

4. Is concentration active or passive?

Neither, because it relates to a number.

5. osmosis

The diffusion of water through a membrane

6. passive transport

When materials move without using the cell's energy to carry out important life functions

7. Is passive transport active or passive?

passive

8. an example of diffusion

An air freshener (the smell spreads out in the room)

9. an example of concentration

- When you mix up kool-aid
- When a sugar cube dissolves in water

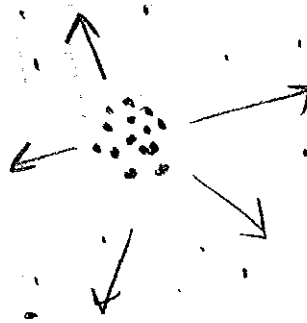
10. an example of osmosis

When a plant takes up water through its roots

11. Is osmosis active or passive?

passive

12. Drawing of diffusion



Spraying
air freshener

13. active transport

Using energy to move materials through a membrane

- the movement of materials from an area of lower concentration to an area of higher concentration (needs energy)

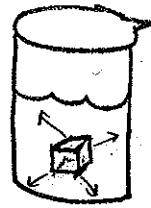
14. What do cells use active transport for?

To perform important life functions (like removing extra salt from the body)

15. Examples of passive transport

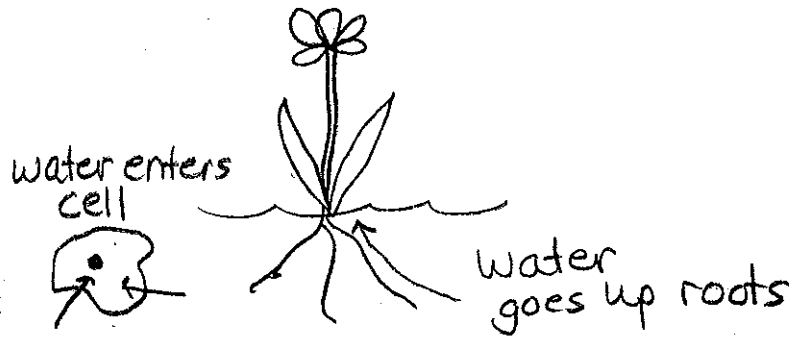
Diffusion and osmosis

16. Drawing of concentration

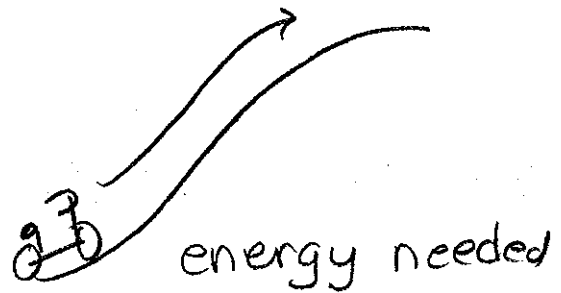


sugar cube
- is concentrated
It moves into
less concentrated area

17. drawing of osmosis



18. Drawing of active transport



19. Drawing of passive transport



20. Example of active transport

*Endocytosis - a cell takes in something large
*exocytosis - a cell gets rid of something large

21. What do active and passive transport have in common?

- * things move in/out of the cell
- * cell must use both to carry out the daily functions to keep the cell alive

22. How are active and passive transport different?

Active transport uses energy to move things in/out of the cell

Passive transport does not use energy to move things in/out of the cell