4.1 Directed Reading: EXCHANGE WITH THE ENVIRONMENT

 1. This movement of materials helps keep cells healthy so they can divide. Cell division then allows organisms to grow and repair injuries.

 2. diffusion

 3. water

 4. molecules

 5. osmosis

 6. Water particles move to where they are less concentrated.

 7. because it helps maintain a balance within the cell of all the concentrated particles

 8. The water will move out of the cells to where water molecules are less concentrted in the salty solution. The cells will shrivel up.

 9. Through the process of osmosis, water moves into the plant cells, which makes the plant firm again.

 10. C

 11. A

 12. B

 13. D

 14. E

 15. proteins

 16. endocytosis

 17. The cell surrounds a large particle and encloses it in a vesicle to bring the particle into the cell.

 18. exocytosis

 19. The cell forms a vesicle around the large particle and carries the particle to the cell members. The vesicle fuses with the membrance and releases the particle outside the cell.

 20. C, A, B

 21. B, A, C