ANSWER KEY

1. C
2. B
3. A
4. False, changing the state of matter is a physical change
5. True
6. True
7. D
8. B
9. A
10. C
11. A
12. B
13. A
14. B
15. D
16. C
17. B
18. A
19. The puddle’s size and volume would change and the substances dissolved and suspended in it become more concentrated. The water is still liquid, but the solution becomes more dense as the water evaporates. While evaporation is occurring, some water is changing from a liquid to a gas, while some water is still remaining a liquid in the puddle.
20. The sugar undergoes a physical changes as it is melted and shaped. A physical change has taken place because only the shape and state of matter has changed. The sugar undergoes chemical changes when it is heated, changing in color and flavor. Signs of a chemical change are production of an odor, production of a gas, production of a solid, color change and change in temperature. Melting the sugar and eventually cooking it is what causes the chemical change.