

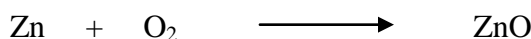
Chapter 21 Test Review Physical Science

Answer the following questions on a separate piece of paper. If you are working on a problem make sure to show your work to receive credit! If the answer requires units, **make sure to include the unit.**

1. What is the law of conservation of mass?



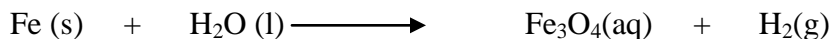
2. What does the number 4 represent in the above equation?
 - a. What is this number called?
3. What are the reactants above?
4. What are the products above?
5. What does the arrow represent?
6. What does the number 2 after aluminum represent?
 - a. What is this number called?
7. What type of chemical reaction is this?



8. What are the coefficients needed to balance the equation above?
 - a. What type of reaction is this?
9. What are the coefficients needed to balance the equation above?
 - a. What type of reaction is this?



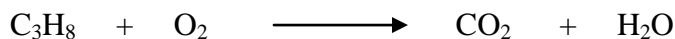
9. What are the coefficients needed to balance the equation above?
 - a. What type of reaction is this?
10. What are the coefficients needed to balance the equation above?
 - a. What type of reaction is this?
 - b. What does the (l) stand for?
 - c. What does the (s) stand for?
 - d. What does the (g) stand for?
 - e. What does (aq) stand for?





11. What are the coefficients needed to balance the equation above?

a. What type of reaction is this?



12. What are the coefficients needed to balance the equation above?

a. What type of reaction is this?

13. What is the difference between an endothermic and exothermic reaction?

a. Which one would feel cold to the touch?

14. What is the difference between a synthesis and analysis reaction?

15. What do you look for in a combustion reaction?

16. What do you look for in a single replacement reaction?

17. Explain what happens in a chemical reaction.

18. What are 4 indicators you look for to indicate a chemical reaction is taking place?

19. What is the difference between exergonic and exothermic?

20. What is the chemical formula for oxygen?

a. Hydrogen?

b. Nitrogen?

21. If two elements form a new compound, what type of reaction occurs?

22. If one compound breaks down into two new substances, what is the reaction type?