

Concept Review

Section: How is Matter Classified?

Write the name of the element for each chemical symbol listed below.

1. C _____

2. S _____

3. N _____

4. Au _____

5. Hg _____

6. Sn _____

Write the symbol of each element listed below.

_____ 7. silver

_____ 8. lead

_____ 9. potassium

_____ 10. iron

_____ 11. sodium

_____ 12. copper

Write the answer to the following questions in the space provided.

13. How does an atom differ from an element?

14. How does an atom differ from a molecule?

15. What is an allotrope?

Concept Review *continued*

16. When is a sample of matter considered a pure substance?

17. What is the difference between a mixture and a compound?

18. Briefly explain why a beaker containing sand and water is a mixture although sand itself is a pure substance.

19. Briefly explain why a compound has characteristic properties.

Label whether each material below is a pure substance, a homogeneous mixture, or a heterogeneous mixture.

20. C_2H_2 _____

21. Au _____

22. Hg _____

23. CH_3COOH _____

24. carbonated beverage _____

25. raisin bran cereal _____

26. stainless steel _____

27. H_2O_2 _____

28. orange juice _____

29. sugar _____

30. gasoline _____