

NAME _____

INSTRUCTIONS: Write **E** in the blank if the material is *heterogeneous* or **O** if it is *homogeneous*.

- | | | | |
|--------------------------------|-------|-------------------------------|-------|
| 1. Wood | _____ | 6. Dirt | _____ |
| 2. Freshly-brewed black coffee | _____ | 7. Sausage-and-mushroom pizza | _____ |
| 3. Water | _____ | 8. Air | _____ |
| 4. Lucky Charms [®] | _____ | 9. Milk | _____ |
| 5. Salt | _____ | 10. Gold | _____ |

INSTRUCTIONS: Classify each of the following as an *element* [**E**], a *compound* [**C**], or a *mixture* [**M**].

- | | | | |
|------------------------|-------|----------------------------|-------|
| 11. Gold | _____ | 16. Air | _____ |
| 12. Water | _____ | 17. Carbon dioxide | _____ |
| 13. Seawater | _____ | 18. Silver | _____ |
| 14. Sugar | _____ | 19. Ice | _____ |
| 15. A chocolate sundae | _____ | 20. A Big Mac [®] | _____ |

INSTRUCTIONS: Classify each of the following properties of matter as *physical* [**P**] or *chemical* [**C**].

- | | | | |
|------------------------------|-------|------------------------------------|-------|
| 21. Color | _____ | 26. Reacts violently with chlorine | _____ |
| 22. Density | _____ | 27. Good conductor of heat | _____ |
| 23. Burns easily (flammable) | _____ | 28. Dissolves readily in water | _____ |
| 24. Not affected by acids | _____ | 29. Melts at 145 °C | _____ |
| 25. Boils at 450 °C | _____ | 30. Malleable | _____ |

INSTRUCTIONS: Classify each of the following changes in matter as *physical* [**P**] or *chemical* [**C**].

- | | | | |
|---------------------------------|-------|--------------------------------|-------|
| 31. Grinding chalk into powder | _____ | 36. Burning gasoline | _____ |
| 32. Dissolving salt in water | _____ | 37. Hammering gold into foil | _____ |
| 33. Dissolving zinc in acid | _____ | 38. Melting ice | _____ |
| 34. Tearing a piece of paper | _____ | 39. Digesting food | _____ |
| 35. Stretching copper into wire | _____ | 40. Making hydrogen from water | _____ |

INSTRUCTIONS: Classify each of the following as an *intensive property* [**I**] or an *extensive property* [**E**].

- | | | | |
|-------------------|-------|------------|-------|
| 41. Mass | _____ | 46. Color | _____ |
| 42. Density | _____ | 47. Volume | _____ |
| 43. Melting point | _____ | 48. Length | _____ |