

10/25 Matter Unit Review

1. B

2. A

3. D

4. A

5. B

6. A

7. A

8. C

9. D

10. B

11. B

12. B

13. B

14. B

15. A

16. C

17. B

18. A

19. D

20. D

21. A

22. C

23. Ne°

24. Gas

25. B^{3+}

26. Chemical

27. Chemistry

28. Ca^{2+}

29. physical

30. product

31. I^{-}

32. liquid

33. chemical

34. elements +
Compounds

<u>Method</u>	<u>Description</u>	<u>Example</u>
Visual	by hand	Shells
Filtration	small holes	Strainer
magnetism	magnetic character	magnetic toy
Crystallization	evaporation	rock candy
Chromatography	size and attraction	foot race separating pigments
distillation	boiling point separation	producing distilled H ₂ O
electrolysis	separating by electrical current	$2\text{H}_2\text{O} \rightarrow 2\text{H}_2(\text{g}) + \text{O}_2(\text{g})$

36. Mg melting = physical change, still Mg

Mg burned = chemical change, produces new substance

37. Pure = elements or atoms that have chemically bonded
to form a compound

Homogeneous = a mixture that has been blended
together w/o visible parts.

	1 IA	2 IIA	B					13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIIIA
Valence e ⁻	1	2						3	4	5	6	7	8 = Octet
gain/lose	lose 1e ⁻	lose 2e ⁻						lose 3e ⁻	gain or lose 4e ⁻	gain 3e ⁻	gain 2e ⁻	gain 1e ⁻	nothing
Charge	1+	2+						3+	4+ 4-	3-	2-	1-	☺

