

Name: _____

Period: _____ Due Date: _____

Chemistry 3 – Elements, Compounds, and Mixtures

I. Preview of the Unit

- _____ A. *Titanic Chapter Starter*
- _____ B. [Chapter Preview Question](#)
- _____ C. [“Matter” Google Form on Blog](#)

II. Elements, Compounds, and Mixtures

- _____ A. [Elements, Compounds, and Mixtures vodcast \(PP\)](#)
- _____ B. [Guided Reading Chapter 3-1](#)
- _____ C. [Statue of Liberty -- what happened to its color?](#)
- _____ D. [Make Your Own Questions from the Chapter 3-2 Headings](#)

III. Types of Mixtures

- _____ A. [Types of Mixtures vodcast \(PP\)](#) (**go back to chart for II-A.)
- _____ B. [Chapter 3-3 Mixtures Graphic Organizer \(PP\)](#)
- _____ C. [Mixture Separation Bellringer \(PT\)](#)
- _____ D. [Mixtures Lab \(PP\)](#)
- _____ E. [Elements, Compounds, and Mixtures.notebook \(PT\)](#)
- _____ F. [Solution, Suspension, and Colloid Concept Map \(PP\)](#)
- _____ G. [Distillation Lab Demos \(and Senteo Activity\) \(PP\)](#)

IV. Review for Matter Quiz

- _____ A. [Compounds and Mixtures BrainPop Video/Quiz](#)
- _____ B. [Elements, Compounds, and Mixtures Venn Diagram \(PP\)](#)
- _____ C. [“Elements, Compounds, and Mixtures” Ediscio Flash Cards](#)

_____ [V. Elements, Compounds, and Mixtures Standard Check](#)

Percent Score _____

I.-A. Titanic Chapter Starter

Listen to this introduction that is shared by your teacher.

I.-B. Chapter Preview Question (write here or on your science class blog)

What do you already know about elements, compounds, and mixtures? Write down at least 3 things that you know or have seen related to elements, compounds, and mixtures.

1. _____
2. _____
3. _____

I.-C. “Matter” Google Form on Blog

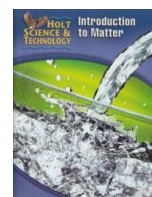
Go to your science team’s web site. On the blog, complete the questions about Matter. Click submit, and that’s it – time to move to the next item!

[Crazy 8](#) [Gator 8](#) [V8](#)

II-A. [Elements, Compounds, and Mixtures](#) Vodcast

Please see your Chemistry 3 Paper Packet (PP), II-A. Elements, Compounds, and Mixtures, for completing this assignment.

II.-B. Guided Reading 3-1 Use a **blue book** (Chapter 3.1 Elements, pg. 56-59) to complete this assignment. Correct your work with an answer key when finished and review any answers that you missed.



Section: Elements

1. Which of the following is NOT a physical or chemical change?
- a. crushing
 - b. weighing
 - c. melting
 - d. passing electric current

ELEMENTS, THE SIMPLEST SUBSTANCES

2. A pure substance that cannot be separated into simpler substances by physical or chemical means is a/an

_____.

3. A substance that contains only one type of particle is a/an _____.

PROPERTIES OF ELEMENTS

4. The amount of an element present does not affect the element's _____.

5. Why does a helium-filled balloon float up when it is released?

_____.

Look at each property listed below. If it is a characteristic property of elements, write CP on the line. If it not a characteristic property, write N.

_____ 6. size _____ 9. shape _____ 12. color _____ 15. weight

_____ 7. melting point _____ 10. mass _____ 13. hardness _____ 16. reactivity with acid

_____ 8. density _____ 11. volume _____ 14. flammability

PROPERTIES OF ELEMENTS

17. What are some common properties that most terriers share?

18. All elements can be classified as metals, metalloids, or _____.

19. An element that is shiny and that conducts heat and electric current well is a/an

_____.

20. An element that conducts heat and electric current poorly, and can be a solid, liquid, or gas is a/an

_____.

21. Elements that have properties of both metals and nonmetals are _____.

Indicate whether the description applies to a metal, a nonmetal, or a metalloid. Write the letter of the correct answer in the space provided.

a. metalloids b. nonmetals c. metals

22. malleable

23. dull or shiny

24. poor conductors

25. tend to be as brittle and unmalleable as solids

26. always shiny

27. also called semiconductors

28. always dull

29. somewhat ductile

30. boron, silicon, antimony

31. lead, tin, copper

32. sulfur, iodine, neon

***When finished, correct your answers with an answer key and look over your mistakes to learn from them.**

II.-C. Statue of Liberty -- what happened to its color?

Describe, using scientific words (like the ones you've been studying), why the Statue of Liberty has changed in color with time.

II.-D. Chapter 3-Section 2 – Write your own *informative* questions and answers

Directions: Find chapter 3, section 2 in one of the **blue books**. Turn each **red heading** into a question, write it down, and then answer it **WITH DETAIL** after reading the paragraphs under each red heading.

Question #1 from first **red heading**:

Answer:

Question #2 from second **red heading**:

Answer:

Question #3 from third red heading:

Answer:

Question #4 from fourth red heading:

Answer:

****When finished, compare your questions and answers with someone else who is also finished.***

III-A. Types of Mixtures vodcast

Go back to the PP chart that went with II-A. “Elements, Compounds, and Mixtures vodcast” and record your additional notes from this vodcast on that chart.

III.-B. Chapter 3 - Section 3 Mixtures Graphic Organizer

Please see your Chemistry 3 PP, III-B. Chapter 3 - Section 3 Mixtures Graphic Organizer, for completing this assignment.

III.-C. *Mixture Separation Bellringer (PT)*

Sand, salt, water, and iron fillings

Use pgs. 64-65 in the **blue book** to help you.

| Bar Index | Approximate Length (Percentage) |
|-----------|---------------------------------|
| 1 | 100% |
| 2 | 98% |
| 3 | 95% |
| 4 | 92% |
| 5 | 88% |
| 6 | 85% |
| 7 | 82% |
| 8 | 78% |
| 9 | 75% |
| 10 | 72% |
| 11 | 68% |
| 12 | 65% |
| 13 | 62% |
| 14 | 58% |
| 15 | 55% |

Please see your Chemistry 3 PP, III-D. Mixtures Lab, for writing answers during this lab.

III.-F. Solution, Suspension, and Colloid Concept Map

Please see your Chemistry 3 PP, III-F. Solution.

Suspension, and Colloid Concept Map, for completing this assignment.

III.-G. Distillation Lab Demos (and Senteo Activity)

Please see your Chemistry 3 PP, III-G. Distillation Lab Demos, for completing this assignment.

IV.-A. Compounds and Mixtures [BrainPOP](https://www.brainpop.com) Video/Quiz

Go to www.brainpop.com and log in. Username is **memmiddle** and password is **brainpop**. Find the video called “Compounds and Mixtures,” then watch it and learn. When finished, take the review quiz. Record the score you got on this practice quiz right here: _____

IV.-B. Elements, Compounds, and Mixtures Venn Diagram

Please see your Chemistry 3 PP, IV-B. Elements, Compounds, and Mixtures, for completing this assignment.

IV.-C. “Elements, Compounds, and Mixtures” [Ediscio](#) Flash Cards

Statistics:

of flashcards known:

of flashcards unknown:

V. Elements, Compounds, and Mixtures [Standard Check](#)

What was your score on this standard check?

Which questions did you answer incorrectly?

Will you be retaking this standard check?

How did/can you master the concepts in this standard check?