1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Complete the pre-test below

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| Identify the charges of the following elements on the Periodic Table   1. Sodium (Na) 2. Aluminum (Al)   Identify the number of protons, neutrons and electrons in each   1. If S has an atomic number of 16, a mass of 32 and a charge of -2   Write the chemical formula for the following   1. Copper(II) chloride 2. Which of the following would be a homogenous mixture?    1. Iron fillings    2. Sugar in water    3. Sand in water    4. None of the above | 1. Which of the following is an example of a chemical change? 2. Souring milk 3. Melting snow 4. Shredding cheese 5. Squeezing an orange 6. A combination of symbols that represents the composition of a compound is a(n) \_\_\_\_\_\_\_\_\_\_\_. 7. Oxidation Number 8. Polyatomic ion 9. Chemical formula 10. Isotope 11. Which of the following is an ion? 12. ClO‑ 13. Cl2 14. HCl 15. CCl2 |

1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: What is the law of conservation of matter? In your opinion, why is this an important concept in chemistry?
2. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Read *Chemistry & Careers* on p.91 and answer the think critically question.
3. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Describe the difference between a heterogeneous & homogenous mixture?
4. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Read the DBQ on p.97, and answer the following questions

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| 105 A. Which substance has the highest percent mass of Carbon?   1. Indigo 2. Charcoal 3. Verdigris 4. Iron Oxide | 106. Which of the materials listed in Table 11 is an example of an element?   1. Iron Oxide 2. Charcoal 3. Indigo 4. Egyptian blue |
| 105 B. Which substance has the highest percent mass of Oxygen?   1. Egyptian blue 2. Indigo 3. Iron Oxide 4. Verdigris | 107. Is the production of charcoal from the dry distillation of wood a chemical or a physical change?   1. Physical because the composition of the dry wood changes into charcoal 2. Physical because the process can be reversed 3. Chemical because the composition of the dry wood changes into charcoal 4. None of the above |

1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Complete the first step in the T4 process, by marking up the passage
2. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Write a summary of the passage text and data

Text Summary

X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Answer the ACT questions in the spaces provided below

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| 1. | 3. | 5. |
| 2. | 4. | 6. |

1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Pair up with a partner, discuss your answers (from BW #8) and write an explanation of where you found those answers in the text.

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| Question | Think, Pair, Share |
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1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Write the correct answers below. Then highlight/number where the correct answer was found in the passage.

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| 1. | 3. | 5. |
| 2. | 4. | 6. |

1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Answer question 103 on p.97. Make sure to include all appropriate labels
2. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Answer the DBQ on p.131, #125-126
3. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Answer the DBQ on p.131 ,#127-129
4. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Answer question #120 on p. 131
5. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Answer question #121 on p. 131

1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: : Complete the first step in the T4 process, by marking up the passage
2. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Write a summary of the passage text and data

Text Summary

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1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Answer the ACT questions in the spaces provided below

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| 7. | 9. | 11. |
| 8. | 10. |  |

1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Pair up with a partner, discuss your answers (from BW #8) and write an explanation of where you found those answers in the text.

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| Question | Think, Pair, Share |
| 7. |  |
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| 9. |  |
| 10. |  |
| 11. |  |

1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Write the correct answers below. Then highlight/number where the correct answer was found in the passage.

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| 7. | 9. | 11. |
| 8. | 10. |  |

1. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Answer the DBQ on p.169
2. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Answer question # 58 on p. 166
3. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Complete the following calculations
   1. 37.5 oz to grams
   2. 120cm3 to L
   3. 300 centuries to seconds
4. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Complete the following metric conversions
   1. 35Mg to mg
   2. 120L to kL
   3. 86s to ng
5. Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Question: Describe the Aufbau Principle in your own words (not the definition from your textbook