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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_ |

Chapter 4 lessons 1, 2, 3, and, 4

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|  |  | 7  P | A | R | 8  T | I | C | U | L | A | T | E | M | A | T | T | E | R |  |  | A |  | C |  |  |  |  |  |  |
|  |  |  |  |  | E |  | H |  | A |  | I |  |  | D |  |  |  |  | 9  L |  | P |  | I |  |  | 10  T |  |  |  |
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|  |  |  |  |  | N |  | O |  | I |  |  | 16  A | T | M | O | 17  S | P | H | E | R | E |  |  |  |  | S |  |  |  |
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|  |  |  |  |  | E |  |  |  | S |  |  |  |  |  |  | 18  A | I | R | P | O | L | L | U | T | I | O | N |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  | 21  W | E | S | T | E | R | L | I | E | S |  |  |  |  |  |  |  |  |

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| **Across**  **7.** is a mixture of dust, acids, and other chemicals that can be hazardous to human health  **11.** the atmosphereic layer directly above the troposphere  **12.** is the movement of air from areas of high pressure to areas of low pressure  **13.** is a region within the mesosphere and thermosphere that contain ions  **14.** near the top of the troposphere is a narrow band of high winds  **15.** the transfer of thermal energy by movement of particles within matter  **16.** is a thin layer of gases surronding earth  **18.** the contamination of air by harmful substances including gases and smoke  **19.** the atmospheres layer closest to earth  **20.** the area of the stratosphere with a high concentration of ozone  **21.** are steady winds that flow from west to east between latitude 30 degrees north and 60 degrees north and 30 degrees south and 60 degrees south | **Down**  **1.** when sulfer dioxide and nitrogen oxides combine with moisture in the the atmosphere and form precipitation that has a PH lower than that of normal rainwater  **2.** is the transfer of thermal energy by collisions between particles of matter  **3.** is water in its gaseous form  **4.** is air pollution that forms from the interaction between chemicals in the air and sunlight  **5.** are cold winds that blow from east to west near the north and south pole  **6.** is the transfer of energy by electromagnetic waves  **8.** occurs in the troposphere when tempature increases as altitude increases  **9.** is a wind that blows from land to sea due to local tempatures and pressure differences  **10.** are steady winds that flow from east to west between latitude 30 degrees north and 60 degrees north and 30 degrees south and 60 degrees south  **17.** is a wind that blows fron sea to land due to local tempatures and pressure differences |