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

Year 9 energy and matter

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|  | 3  E | N | D | O | T | H | E | R | M | I | C |  |  |  |  |  |  |  |  |
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|  |  | 5  W | A | T | E | R |  |  | 6  A |  | 7  C |  |  | R |  |  |  | 8  C |  |
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|  |  | 10  E | I | G | H | T |  | 11  M | A | S | S |  |  | 12  O | X | Y | G | E | N |
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|  |  |  | 13  S | U | R | R | O | U | N | D | I | N | G | S |  | E |  | E |  |
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| **Across**  **3.** A reaction the takes in heat from the surroundings  **5.** Hydrocarbon + oxygen --> carbon dioxide + \_\_\_\_\_\_\_\_  **10.** How many atoms are in C2H6  **11.** Particles in a reaction rearrange, this is the "conservation of \_\_\_\_\_ theory"  **12.** Combustion always has this gas as a reactant  **13.** An Exothermic reaction gives out energy to its ...  **14.** These go into a reaction  **16.** These are made in a reaction | **Down**  **1.** In an endothermic reaction the temperature would go \_\_\_\_  **2.** The equipment you use to find if a reaction is endo/exo thermic  **4.** carbon dioxide is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gas  **6.** Sulphur dioxides and nitrogen oxides cause \_\_\_\_\_\_/\_\_\_\_\_  **7.** What is the posh word for burning  **8.** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ combustion happens when there is plentiful oxygen  **9.** Incomplete combustion happens when there is limited \_\_\_\_\_\_\_\_\_  **15.** How many elements are in C2H6 |