

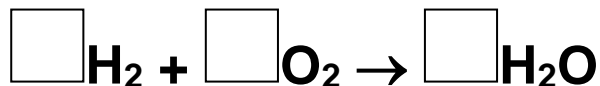
Worksheet – The Bottle Rocket



Name..... Class.....

1. The reaction you saw was hydrogen (H₂) reacting with oxygen (O₂) to make water (H₂O).

The reaction equation is shown below. Can you balance it?



2. The bond enthalpies of H-H, O=O and H-O are 236 kJ mol⁻¹, 497 kJ mol⁻¹ and 458 kJ mol⁻¹ respectively. How much energy is released in this reaction?

.....kJ mol⁻¹

3. What 2 types of energy is the chemical energy converted into?

.....energy andenergy

4. What is the name for something which speeds up a chemical reaction but is not changed by the reaction?

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5. Why does this reaction not happen immediately?.....

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