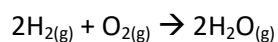


Name: _____ Period: _____ Date: _____

Bond Energy and the Types of Reactions Exit Quiz

When water vapor is produced from hydrogen and oxygen gases, the equation for the reaction is:



Bond	Bond Energy (kJ mol ⁻¹)
H—O	463
O = O	498
H—H	436

Use the equation and the bond energies in the table above complete the tasks below.

1. Draw the compounds in the reaction
2. Calculate the energy required to break the bonds in the reaction.
3. Calculate the energy released when the new bonds are formed.
4. Give the enthalpy change for the reaction.