

Writing Complete Equations Practice

For each of the following problems, write complete chemical equations to describe the chemical process taking place. Important note: There are two physical processes on this sheet – remember, you can't write an equation for a physical process!

- 1) When lithium hydroxide pellets are added to a solution of sulfuric acid, a lithium sulfate solution and water are formed.

- 2) When dirty water is boiled for purification purposes, the temperature is brought up to 100⁰ C for 15 minutes.

- 3) If a copper coil is placed into a solution of silver nitrate, solid silver crystals form on the surface of the copper. Additionally, highly soluble copper (I) nitrate is generated.

- 4) When crystalline C₆H₁₂O₆ is burned in oxygen, carbon dioxide gas and water vapor are formed.

- 5) When a chunk of palladium metal is ground into a very fine powder and heated to drive off any atmospheric moisture, the resulting powder is an excellent catalyst for chemical reactions.