

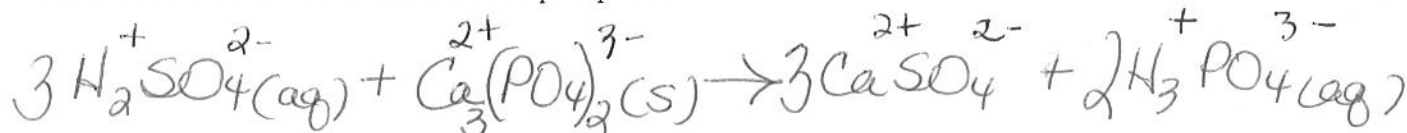
## 25

## COMMUNICATING CHEMICAL REACTION EQUATIONS

For each of the reactions described below, predict and communicate the balanced chemical equation using international symbols and including the states of matter at SATP. Write an English translation to indicate how the equation is read.

*\* no charges on covalent molecules*

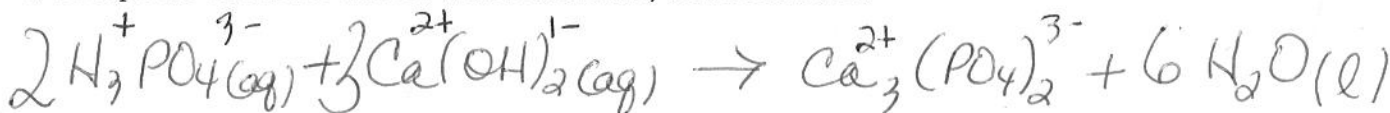
1. Sulfuric acid reacts with solid calcium phosphate.



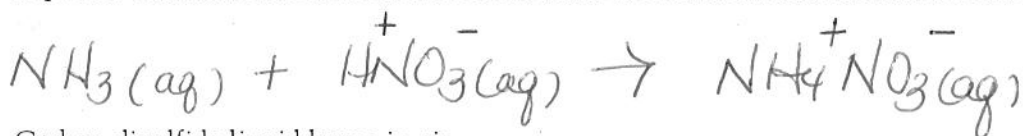
2. Kerosene,  $\text{C}_{14}\text{H}_{30}(\text{l})$ , is burned as a fuel.



3. Phosphoric acid is neutralized with a calcium hydroxide solution.



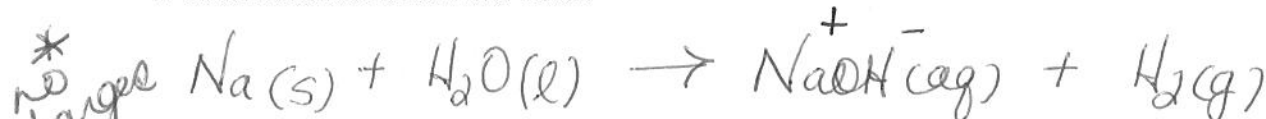
4. Aqueous ammonia and nitric acid react to form the fertilizer ammonium nitrate.



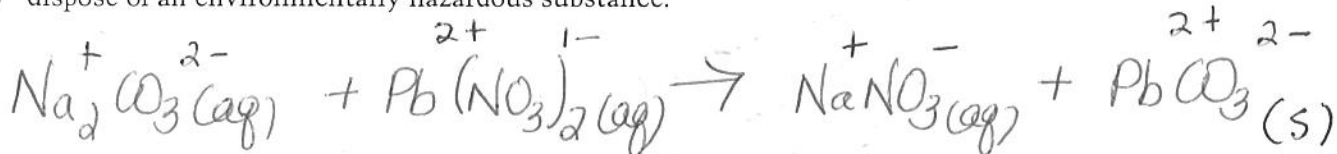
5. Carbon disulfide liquid burns in air.



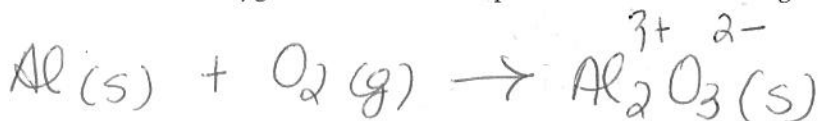
6. Sodium metal reacts with water.



7. A sodium carbonate solution reacts with aqueous lead(II) nitrate to recover and dispose of an environmentally hazardous substance.



8. Aluminum and oxygen react to form a protective oxide coating.



9. Aqueous chlorine reacts with aqueous potassium iodide.

