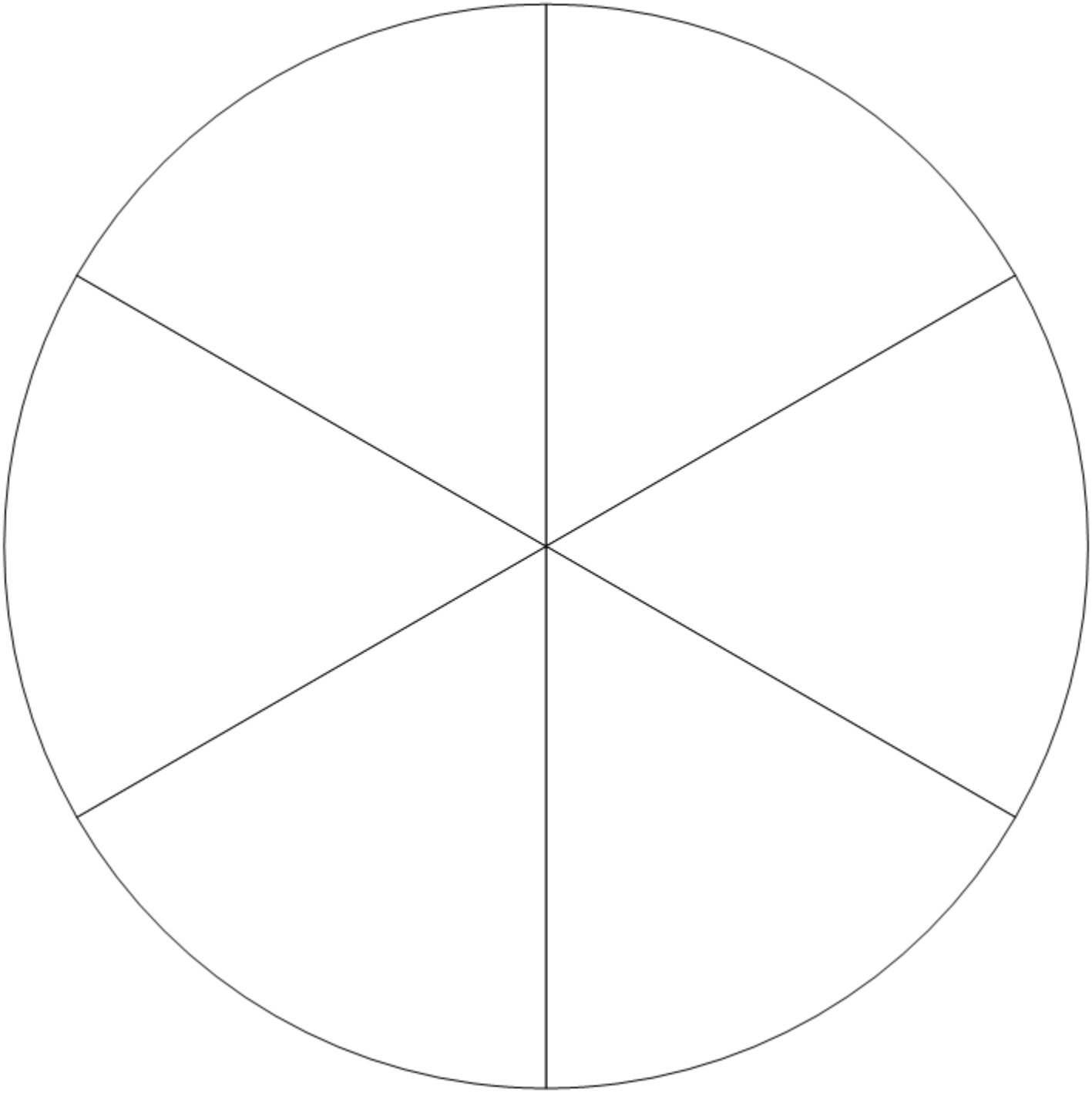
name: _____

intervention 1.4 acd-reactions



Below are instructions on how to complete the Reaction Rates Wheel.

1. The other side of this page is your reaction rates wheel.
2. Cut out the front circle for the reaction rates wheel (on a separate sheet of paper).
3. Label the front circle "Reaction Rates" and decorate.
4. Attach the two circles together through the center using a brad.
5. On the outside of the reaction rates wheel, label each section with the different things that can impact reaction rates…
    - Temperature
    - Concentration
    - Surface Area
    - Agitation
    - Pressure
    - Catalysts

Questions:

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

    Reactants: _____

    Products: _____

2. $6CO_2 + 6H_2O$ + Light Energy → $C_6H_{12}O_6 + 6O_2$

    Reactants: _____

    Products: _____

3. A 10.0 g sample of magnesium reacts with oxygen to form 16.6 g of magnesium oxide. How many grams of oxygen reacted?

4. From a laboratory process designed to separate water into hydrogen and oxygen gas, a student collected 10.0 g of hydrogen and 79.4 g of oxygen. How much water was originally involved in the process?