

# Controlling Chemical Reactions

(Chapter 6, section 3)

Name \_\_\_\_\_

Period \_\_\_\_\_

---

1. What is activation energy? Explain how the cartoon in Figure 12 models the role of activation energy in a chemical reaction.

---

2. Make two graphs (one for an exothermic reaction and one for an endothermic reaction) that show how energy changes in chemical reactions. Include labels.

---

3. What are five ways that the rates of chemical reactions can be controlled?

---

4. How does changing surface area affect the rate of a reaction?

---

5. How does changing temperature affect the rate of a reaction?

---

6. What is concentration? How does changing concentration affect the rate of a reaction?

---

7. What is a catalyst? Are catalysts considered reactants? Why or why not?

---

8. What is an enzyme? How do enzymes work?

---

9. What is an inhibitor? How do inhibitors work?

---

10. What is combustion?

---

11. What is fuel?

---

12. What three things are needed to start and maintain a fire? Show these by drawing a fire triangle.