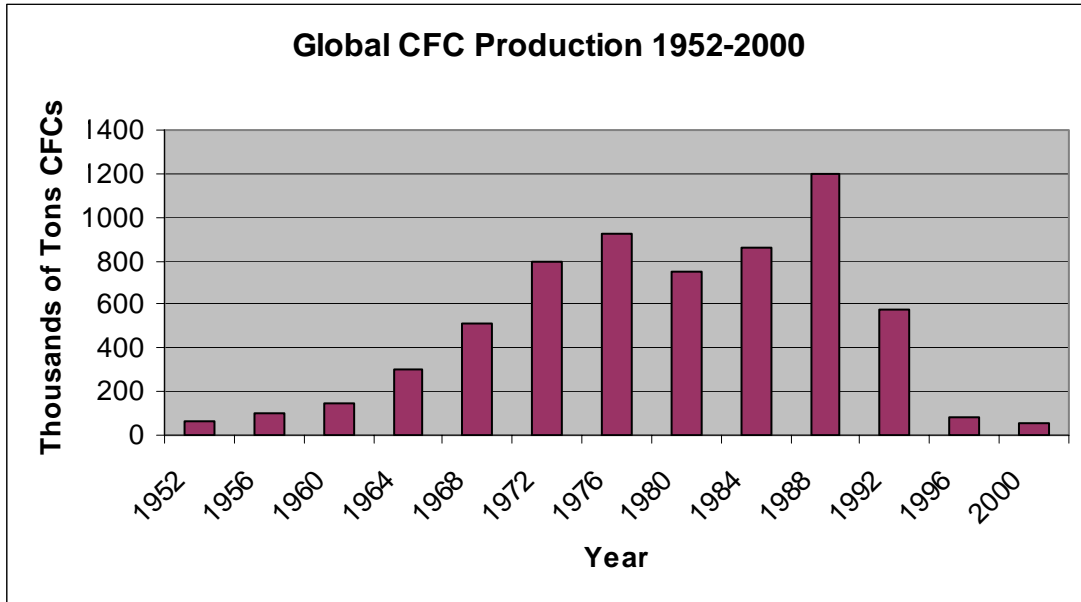


Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Battling for Oxygen Worksheet

Answer the following questions, based on what you learned in the gumdrop-ozone activity:

- Ozone is made of \_\_\_\_\_ oxygen molecules.
  - one
  - two
  - three
  - four
- The chemical formula for oxygen gas is \_\_\_\_\_.
  - O<sub>2</sub>
  - O<sub>3</sub>
  - O<sub>4</sub>
  - ClO<sub>2</sub>
- Sources of chlorofluorocarbons include aerosol cans, old refrigerators and \_\_\_\_\_.
  - batteries
  - plants
  - car engines
  - old air conditioners
- Ultraviolet light (UV) light \_\_\_\_\_ ozone molecules.
  - builds
  - breaks up
  - does not affect
  - doubles
- Ultraviolet light \_\_\_\_\_ humans and other organisms.
  - is harmful to
  - is helpful to
  - does not affect
  - protects



Using the graph above, answer the following questions:

1. When were the most chlorofluorocarbons (CFCs) produced?
  - a) 1972
  - b) 1978
  - c) 1988
  - d) 2000
  
2. When did CFC production first reach 200 thousand tons?
  - a) 1972
  - b) 1956
  - c) 1964
  - d) 1960
  
3. What do you **guess** the average production of CFCs is?
  - a) 1,200 thousand tons
  - b) 490 thousand tons
  - c) 6 thousand tons
  - d) 100 thousand tons
  
4. Why are CFCs no longer produced?

---



---



---

Graph source: Tom Rutkowski, Integrated Teaching and Learning Program, College of Engineering, University of Colorado at Boulder, 2003.