

DATE:

NAME:

CLASS:

CHAPTER 3	Research SCUBA	BLM 3.1.4
HANDOUT		

The understanding of gas laws is important when learning about diving under water. Perform Internet research to find the answers to the following questions about SCUBA diving.

1. Who were the major players in the invention of SCUBA gear?
2. What challenges are there to humans exploring the world under the sea?
3. Why can't you breathe directly out of a compressed air tank? What device helps control breathing?
4. What gases are contained in the compressed tank?
5. As a diver descends, the pressure increases. What effect does this have on the solubility of gases in the diver's body?

6. When excess nitrogen begins to dissolve in the diver's blood, the diver may experience nitrogen narcosis. Explain the effects of this condition on the diver.
  
  
  
  
  
  
  
  
  
  
7. How does the diver get rid of residual nitrogen in the body? What happens if the diver rises to the surface too quickly?
  
  
  
  
  
  
  
  
  
  
8. What can happen when the diver consumes too much oxygen?
  
  
  
  
  
  
  
  
  
  
9. Should you ever hold your breath while ascending? What happens to the gases in your lungs as you ascend?
  
  
  
  
  
  
  
  
  
  
10. Many people enjoy SCUBA diving. As a class, analyze some of the risks and benefits of taking part in this sport.