

GAS LAWS QUESTIONS

Name _____ Date _____ Block _____

Gas Laws and Scuba Diving

Answer the following questions from “Gas Laws and Scuba Diving” article reprint.

1. Why does diving 30m below sea level affect our bodies more than being in a building 30m above sea level?
2. What parts of a diver’s body are most affected by pressure changes?
3. State Boyle’s Law.
4. Why don’t SCUBA diver’s lungs collapse as they descend?
5. What would happen to a diver who does not exhale while surfacing from a 30 m dive? Explain in terms of Boyle’s Law.
6. State Henry’s Law.
7. What gas is associated with causing bubbles in the blood and other body fluids?
8. What is another name for decompression sickness?
9. Which gas law explains why air contaminants (like trace amounts of CO) are more dangerous when the total air pressure is higher? Explain.
10. Explain why it is dangerous for a diver to take a hot shower after a deep dive.