

# Chapter 5

## Principles of Water

### Multiple Choice

Write the letter of the best answer on the blank provided.

- B 1. Water is a compound of hydrogen and oxygen formed when: (167)  
A. one hydrogen atom combines with one oxygen atom.  
B. two hydrogen atoms combine with one oxygen atom.  
C. two oxygen atoms combine with one hydrogen atom.  
D. two hydrogen atoms combine with two oxygen atoms.
- C 2. How much is ordinary fresh water considered to weigh for fire protection purposes? (167)  
A. 5.25 lb/gal (0.63 kg/L)  
B. 7.26 lb/gal (0.87 kg/L)  
C. 8.3 lb/gal (1 kg/L)  
D. 12.8 lb/gal (1.5 kg/L)
- D 3. When does water exist in a liquid state? (168)  
A. Between 0°F and 100°F (-18°C and 38°C)  
B. Between 16°F and 110°F (-9°C and 43°C)  
C. Between 20°F and 200°F (-7°C and 93°C)  
D. Between 32°F and 212°F (0°C and 100°C)
- D 4. Water may be used to smother fires in which type of combustible liquid? (168)  
A. Combustible liquids that have no specific gravity  
B. Combustible liquids whose specific gravity is equal to 1  
C. Combustible liquids whose specific gravity is lower than 1  
D. Combustible liquids whose specific gravity is higher than 1
- B 5. Compared to other common extinguishing agents, water has: (169)  
A. a lower heat-absorbing capacity.  
B. a greater heat-absorbing capacity.  
C. an almost identical heat-absorbing capacity.  
D. an initially greater but then lower heat-absorbing capacity.
- C 6. When water is converted to steam at 212°F (100°C), it occupies approximately: (169)  
A. 200 times its original volume.  
B. 700 times its original volume.  
C. 1,700 times its original volume.  
D. 3,500 times its original volume.

# Mechanical Concepts Water Study Guide

**ML Morrison**



## **Mechanical Concepts Water Study Guide:**

Resources in Education ,1984      **Clay Materials Used in Construction** George M. Reeves,Ian Sims,J. C. Cripps,2006  
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