**Chapter 14 Reading Guide**

**Module 41**

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| 1. Wastewater | 2. Point Source | 3. Nonpoint Source | 4. Biological Oxygen Demand |
| 5. Dead Zone | 6. Eutrophication | 7. Cultural Eutrophication | 8. Water Pollution |
| 9. Indicator Species | 10. Fecal Coliform Bacteria | 11. Septic System | 12. Septic Tank |
| 13. Sludge | 14. Septage | 15. Leach Field | 16. Manure Lagoon |

**Module 42, 43, 44, 45**

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| 1. Acid Deposition | 2. Perchlorates | 3. Polychlorinated Biphenyls (PCBs) | 4. Thermal Pollution |
| 5. Thermal Shock | 6. Clean Water Act | 7. Safe Water Drinking Act | 8. Maximum Contaminate Level (MCL) |

**Opening Story**

1. What are the 3 ways nitrogen and phosphorous make get into the Chesapeake Bay?
2. Why pharmaceuticals an issue (what happens to fish)?

**Module 41**

1. Why is it important to know the difference between point and nonpoint source pollution?
2. Describe the process of cultural eutrophication. Include all the parts.
3. Explain the modern technologies used to treat wastewater.

**Module 41 Review** 1.\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_ 5. \_\_\_\_\_\_\_\_

**Module 42**

1. Explain the sources of heavy metals and their effect on organisms.
2. Discuss the sources and effects of acid deposition and acid mine drainage.
3. Explain how synthetic organic compounds can affect aquatic organisms.

**Module 42 Review** 1. \_\_\_\_\_\_\_\_ 2.\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_ 5. \_\_\_\_\_\_\_\_

**Module 43**

1. Identify major sources of oil pollution.
2. Explain some of the methods to remediate oil pollution.

**Module 43 Review** 1. \_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_

**Module 44**

1. Identify the major sources of solid waste.
2. Explain the harmful effects of sediment pollution.
3. Discuss the sources and consequences of thermal pollution.

**Module 44 Review** 1. \_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_

**Module 45**

1. Explain how the Clean Water Act protects against water pollution.
2. Discuss the goals of the Safe Drinking Water Act.
3. Understand how water pollution legislation is changing in developing countries.

**Module 45 Review** 1. \_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_\_\_\_

**Chapter 14 Review:** 1. \_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_ 4. \_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_ 6.\_\_\_\_\_\_\_\_\_\_ 7. \_\_\_\_\_\_\_\_\_\_\_ 8. \_\_\_\_\_\_\_\_\_\_ 9. \_\_\_\_\_\_\_\_\_\_