

Science 7/8 Unit A checklist (Water Systems)

Everything below is testable material. While not EVERYTHING about this unit will be on the test, if you can answer every question fully you will be fully prepared.

- Water on Earth
 - 3 states of water, the processes that water goes through between the states.
 - The differences between fresh and salt water, how much of each makes up all water on Earth.
 - Groundwater zones: diagram, definition of sections, how they're replenished, how they're accessed.
 - Water sheds: definition, watersheds in North America, the watershed that Toronto is a part of.
 - Differences and similarities between glaciers and ice sheets. Definitions and locations of both.
 - Water cycle: diagram, definition of sections and parts.
 - Heat capacity: definition, impact of the heat capacity of water on air temperature.
 - Definition and examples of microclimates.
 - Definition of and what causes a hurricane.
 - Definitions and relationship between glacial and interglacial periods.
 - Effect of interglacial and glacial periods on glaciers, and the resulting effect on global and local climate, water systems, and environment.
 - Describe the Greenhouse gas affect, create a diagram of the greenhouse gas affect.
- Monitoring Water Systems
 - Types of water contaminants, examples of each kind, how we deal with each kind.
 - Natural occurrences that affect water quality, and how they affect water quality.
 - Causes of changes of water supply in a watershed, examples.
 - Why does wastewater and processed water need to be treated before being released back into the environment? What are some major consequences?
 - Water treatment for above ground water sources (diagram and explanation of steps, testing of water).
 - Wastewater treatment methods (diagrams and explanation of steps), where and why each type is used.
- Stewardship of our water systems
 - Definition and importance/relevance of environmental stewardship.
 - Ways to reduce water consumption.
 - Bias vs impartial presentation of information and facts.
 - Techniques for maintaining water systems (how and when they're used).