Year 10 Science: Water in ecosystems: soil, plants and transpiration

Name: _____ Date: _____

Try these without your notes first, then check the answer key.

Practice

1. Give three ways a plant uses the water its roots take up.

2. Why does a plant on a hot, windy day need more water from the soil?

3. Why can soil rich in organic matter support more life than sandy soil?

4. In the stream transect, which reading would you expect to change most after two weeks of heavy rain, and why?

5. Explain how overfishing of snapper can lead to the loss of a kelp forest.

Fix the mistake

6. Correct this statement: "Plants keep most of the water their roots take in and use it for photosynthesis."

7. Correct this statement: "Transpiration is the plant sweating out water through its roots."

8. Correct this statement: "Clay soil is the best soil because it holds the most water."

9. Correct this statement: "Water and nutrients flow through an ecosystem and are lost, the same as energy."