

# Knowledge Scanner (Key)

## Mission 1: Wayward Water!

### Lesson 2 – A Mystery to Pond-tificate!



1. What did we observe in the scene with the pond that suggested that water has left the pond?

a. Docks levels above waterline

b. Exposed cracked mud/pond bottom along edges of the pond

c. Houses/Plants remove water from the pond

2. Transpiration is the process by which plants remove water from the ground through cellular respiration, and release water vapor into the air.

3. Evaporation is the process by which liquid water is converted into a gas, water vapor, through interactions between air and water.

4. What did the video mean by the pond gaining water from the water table? How could water come into the pond from below?

The ground contains water which flows into the pond when water levels are below the elevation of the water table.

5. How could the houses around the pond affect the water levels in the pond?

The houses may have wells which remove groundwater, causing flow into the pond to stop, and allowing the pond to evaporate - lowering water levels.

Runoff from the house could add water to the pond.

6. Does the wind blow here in Oklahoma? How do you think that affects the rate at which water evaporates here?

The faster the wind blows, when undersaturated with water vapor, then the faster the rate of evaporation.