

# Life Science Grade 6 Lab Practical

## Teacher's Answer Key

This is your chance to see how well your students have picked up on important key concepts, and if there are any holes. Your students also will be working on their homework assignment as you do this test individually with the students.

### Materials:

- microscope
- slides
- cover slips
- 1 wet mount specimen, such as pond water
- tweezers
- an eye dropper
- celery stalk
- 2 slices of potato
- two glasses of water
- salt

**Lab Practical:** Ask the student *Note: Answers given in italics!*

- Demonstrate the proper way to view pond water. *(Student should use eye dropper to put one drop of pond water on a slide. Student should then use tweezers to put a cover slip on one end of the drop, then carefully lower the cover slip onto the whole drop. Finally, student should gently press out any bubbles and use a paper towel to dab any excess water off of the slide.)*
- Design an experiment that shows how osmosis works. *Students place a piece of celery in the cup and then explain how water enters a plant through a passive transport process called osmosis. It travels through the xylem, from most concentrated to least concentrated area. Thus, it travels from bottom to top. Once at the top, it evaporates, making room for new water flow...OR...Students place a slice of potato in a cup of fresh water and salt water, and explain why one potato becomes stiff while the other becomes flimsy: the water moved from areas of low salt concentration to high. Therefore, it moved from the potato into the salt water, making the potato in the salt water flimsy. In the glass without salt water, water moved from low salt concentration (outside of the potato) to high salt concentration (inside the potato), making it firm.*

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## Student Worksheet

**This is your chance to show how much you have picked up on important key concepts, and if there are any holes. You also will be working on a homework assignment as you do this test individually with a teacher.**

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### Lab Practical: Ask the student:

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- Design an experiment that shows how osmosis works.