

Name _____ Period _____ Date _____

Living Environment Video Lab: Osmosis in an Egg

Directions: Go to <http://www.youtube.com/watch?v=SSS3EtKAZYc&feature=related> Watch the video provided and use the information to complete the following questions.

1. What is a hypotonic solution? (2 points)
2. Give an example of a hypotonic solution (1 point).
3. What is a hypertonic solution? (2 points)
4. Give an example of a hypertonic solution (1 point).
5. Drinking excessive salt water can lead to what? (1 point)
6. Why is the inner membrane of a chicken egg considered semi-permeable? (2 points)
7. During the pre-lab set up, how is the eggs outer shell dissolved? (1 point)
8. Within seconds after placing the egg in vinegar, bubbles begin to form on the shell. What are these bubbles caused by? (1 point)
9. What hypotonic solution is egg A placed in? (1 point)

10. What hypertonic solution is egg B placed in? (1 point)

11. After 8 hours in a hypotonic solution, did the mass of the egg increase, decrease, or remain the same? If there was any change in mass, what was the total change? (2 points)

12. What can you conclude about a cell placed in a hypotonic solution? (2 points)

13. After 8 hours in a hypertonic solution, did the mass of the egg increase, decrease, or remain the same? If there was any change in mass, what was the total change? (2 points)

14. What can you conclude about a cell placed in a hypertonic solution? (2 points)