

## OSMOSIS IN AN ANIMAL CELL

- Objectives:**
- 1) Observe osmosis across the membrane of a chicken egg
  - 2) Measure the amount of water that moves across the egg membrane.
  - 3) Observe and recognize the three osmosis solutions (hypertonic, hypotonic, isotonic).

**Hypothesis:** In the osmosis experiment I believe the vinegar will have a hypotonic solution on the egg. The syrup will have a hypertonic solution on the egg, and the water will have an isotonic solution on the egg.

- Materials:**
- 1) Beakers
  - 2) Water
  - 3) Plastic wrap
  - 4) Rubber band
  - 5) Light corn syrup
  - 6) Vinegar
  - 7) 2 raw egg (large)
  - 8) 2 graduated cylinder (100ml, 50ml)
  - 9) Marker for labeling cup
  - 10) Tri Beam scale

- Procedure:**
- 1) Measure 130ml of vinegar into the beaker.
  - 2) Gently place the egg into the vinegar. Make sure the egg is completely covered by the vinegar.
  - 3) Weigh all of the items on the scale
  - 4) Cover the beaker with plastic and secure it with a rubber band.
  - 5) Label the beaker with your name and period.
  - 6) Observe what happens immediately and record. Predict what will happen to the egg.
  - 7) Leave the egg in the vinegar for at least 24 hours.

**Day Two:**