

Name _____
Partners _____

Egg Lab

Materials:

- 1 raw egg in shell
- 1 beaker (400-600 mL)
- graduated cylinder
- white vinegar
- white corn syrup
- metric ruler
- aluminum foil

Procedure:

Day 1

1. Obtain an egg and measure the circumference of the fattest part of the egg in centimeters (cm). Record the measurement in the data table.
2. Record observations about the egg, including a description.
3. Place the egg in the beaker. Measure vinegar using the graduated cylinder and pour into the beaker. Continue to add measured amounts of vinegar until the egg is covered. Record the total amount of vinegar added to the beaker in the data table.
4. Cover the beaker with aluminum foil and label the beaker with one name from your group.
5. Place the beaker in a safe place and wait 48 hours.

Day 2

1. After 48 hours, record observations about the egg. What changes have occurred?
2. Slowly drain the vinegar out of the beaker and into a graduated cylinder. Measure the amount of vinegar. Record the amount in the data table.
3. CAREFULLY remove the egg from the beaker. Record how the egg feels.
4. CAREFULLY measure the circumference of the egg and record the measurement in the data table.
5. Rinse out the beaker. Add 200 mL of white corn syrup to the beaker.
6. Gently place the egg back into the beaker.
7. Cover the beaker with aluminum foil.
8. Place the beaker in a safe place and wait 24 hours.

Day 3

1. After 24 hours, record observations about the egg. What changes have occurred?
2. Slowly drain the corn syrup out of the beaker and into a graduated cylinder. Measure the amount of corn syrup. Record the amount in the data table.
3. CAREFULLY remove the egg from the beaker. Record how the egg feels.
4. CAREFULLY measure the circumference of the egg and record the measurement in the data table.
5. Rinse out the beaker and gently place the egg back into the beaker.
6. Add 250 mL of water to the beaker.
7. Cover the beaker with aluminum foil.
8. Place the beaker in a safe place and wait 24 hours.

Day 4

1. After 24 hours, record observations about the egg. What changes have occurred?
2. Slowly drain the water out of the beaker and into a graduated cylinder. Measure the amount of water. Record the amount in the data table.
3. CAREFULLY remove the egg from the beaker. Record how the egg feels.
4. CAREFULLY measure the circumference of the egg and record the measurement in the data table.
5. Gently place the egg back in the beaker.
6. Using a dissecting pin or paper clip, puncture the egg.
7. Dispose of the egg in the toilet.

Data:

Day	Observations
Day 1 (start of lab)	
Day 2 (after 48 hours in vinegar)	
Day 3 (after 24 hours in corn syrup)	
Day 4 (after 24 hours in water)	

Day	Circumference of Egg (cm)
Day 1 (start of lab)	
Day 2 (after 48 hours in vinegar)	
Day 3 (after 24 hours in corn syrup)	
Day 4 (after 24 hours in water)	

Day	Amount of Liquid (mL)
Day 1 (initial amount of vinegar)	
Day 2 (amount of vinegar after 48 hours)	
Day 2 (initial amount of corn syrup)	
Day 3 (amount of corn syrup after 24 hours)	
Day 3 (initial amount of water)	
Day 4 (amount of water after 24 hours)	