

SIMULATING THE STEPS OF DIGESTION LAB

Name ANSWER KEY Science Section: _____



In this lab investigation, you will simulate the three steps of digestion:

1) *mechanical digestion*, 2) *chemical digestion* and 3) *absorption*.

Carefully follow the steps listed here.

Special Precautions: While doing this investigation, you will be using a hot water bath to boil a mixture of 70% isopropyl alcohol and chopped carrot. Because this could splatter and cause burns, please take *extra precaution* around the hot plate & wear safety goggles.

Avoid breathing the alcohol fumes, they may irritate your sinus passages.

Materials List:

- test tube
- beaker



- alcohol
- chroma. paper



- safety goggles
- hot plate

Day 1 - Experimental Procedure:

- 1 Mechanical digestion takes place in the mouth, where strong jaws and teeth tear and grind food into small pieces. *Cut the carrot into small enough pieces to fit inside the test tube.* Your hand will represent the strong jaw muscles and the breaking of the carrot will represent your teeth. *(Update: I will use the food processor to do this for you. See me for carrots!)*



Answer This! - In your body, your TEETH are used for mechanical digestion in your mouth. In this lab, a FOOD PROCESSOR will take care of the mechanical digestion for you. See me for your chopped carrots!

- 2 After the food has been mechanically digested by the teeth, it passes into the esophagus which carries the food to the stomach. In this step, your hand will be the esophagus and the test tube will represent the stomach. *Put enough pieces of the chopped carrot into the test tube to fill it about 1/2 full.*

Answer This! - In your body, your ESOPHAGUS moves food to your stomach. In this lab, your HAND will do the job of transporting chopped food.

Steps Of Digestion Answer Key

Jiyuan Zhang



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