

# DIGESTION MODEL STUDENT GUIDE

## Materials

- Scissors
- Gallon plastic bag
- Metal tray
- Plate, tray, dish
- One small plastic cup
- One large plastic cup
- One paper cup
- One nylon “leg”
- Food sample
- Orange juice
- Water

## Set-Up

1. Get food ingredients, a plastic bag, one paper cup, a cup of water, a cup of orange juice, nylon, a plate, and a metal tray.
2. Put paper towels down on your lab station.

## Creating the Model

### Phase 1

1. Add the cracker, banana, and a little water into the plastic bag.
2. Seal the bag shut.
3. Squeeze all the air out and seal the bag.
4. Squeeze the bag for about 1 min to smash up the food inside.
5. Record your observations.

### Phase 2

1. Carefully open the bag and add in the orange juice.
2. Squeeze all the air out and seal the bag.
3. Squeeze the bag for 2 or 3 minutes to smash up the mixture inside.
4. Record your observations.

### Phase 3

1. Set the closed end of the nylon leg into the pie pan.
2. Carefully cut a small hole in the corner of the plastic bag. Don't spill any of the contents inside.
3. Carefully pour the contents of the bag through the hole into the nylon leg. Be careful! Liquid will come out the sides of the nylon so make sure it all stays in the pan.
4. Record your observations.

### Phase 4

1. Squeeze the food down to the closed end of the nylon.
2. Cut the toe off the nylon and squeeze the remaining food out of the end and into the paper cup.
3. Record your observations.

### Phase 5

1. Use the plastic cup to push the food through the hole in the bottom of the paper cup onto the plate.
2. Record your observations.