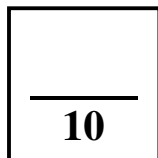


## Science 9-Biology

### Experiment 6-2—Testing for Fats



Name \_\_\_\_\_

Due Date \_\_\_\_\_

Show Me  Hand In *Correct and Hand In Again By* \_\_\_\_\_

**Purpose:** To test some foods for the presence of fats

#### Materials:

A brown non-glazed paper bag

Teacher's material for positive test results (vegetable oil, lard etc.)

Six food samples for testing – Listen carefully to the discussion before choosing your food. You want positive and negative results.

#### Procedure:

1. Divide your bag into eight squares.
2. On one of the squares place the teacher's **material for positive test** (vegetable oil etc.)
3. On the next square put a few drops of **water** (this is a control)
4. On the other 6 squares place **food samples**. Rub each food thoroughly into the paper.
5. Clearly **label** each of the 8 squares
6. Scrape off any excess food particles into the garbage
7. Put a few drops of water on each of the 8 squares and rub it into the paper.
8. Follow the teacher's instructions for **drying** the papers. (You might use a heat lamp or a hair dryer etc.)
9. When the paper is dry, examine the squares for a "greasy" mark.
10. Hold the paper up to a light source. The presence of fat is indicated by a **translucent spot** on the paper.
11. On the **table** on the next page, **label the samples** (including the known **positive** sample and the **control**) and indicate whether or not fat (translucent spot) was detected or not. In the square after "**Fat?**" write "**Y**" or "**N**". Indicate the **relative amount** of fat detected by checking off "**High Fat**", "**Low Fat**" or "**No Fat**" in each box.

**Observations:**

**Testing For Fats**

|   |   |   |   |
|---|---|---|---|
| <b>Sample</b> _____<br><b>Fat?(Y/N)</b> <input type="checkbox"/><br><b>High Fat</b> <input type="checkbox"/><br><b>Low Fat</b> <input type="checkbox"/><br><b>No Fat</b> <input type="checkbox"/> | <b>Sample</b> _____<br><b>Fat?(Y/N)</b> <input type="checkbox"/><br><b>High Fat</b> <input type="checkbox"/><br><b>Low Fat</b> <input type="checkbox"/><br><b>No Fat</b> <input type="checkbox"/> | <b>Sample</b> _____<br><b>Fat?(Y/N)</b> <input type="checkbox"/><br><b>High Fat</b> <input type="checkbox"/><br><b>Low Fat</b> <input type="checkbox"/><br><b>No Fat</b> <input type="checkbox"/> | <b>Sample</b> _____<br><b>Fat?(Y/N)</b> <input type="checkbox"/><br><b>High Fat</b> <input type="checkbox"/><br><b>Low Fat</b> <input type="checkbox"/><br><b>No Fat</b> <input type="checkbox"/> |
| <b>Sample</b> _____<br><b>Fat?(Y/N)</b> <input type="checkbox"/><br><b>High Fat</b> <input type="checkbox"/><br><b>Low Fat</b> <input type="checkbox"/><br><b>No Fat</b> <input type="checkbox"/> | <b>Sample</b> _____<br><b>Fat?(Y/N)</b> <input type="checkbox"/><br><b>High Fat</b> <input type="checkbox"/><br><b>Low Fat</b> <input type="checkbox"/><br><b>No Fat</b> <input type="checkbox"/> | <b>Sample</b> _____<br><b>Fat?(Y/N)</b> <input type="checkbox"/><br><b>High Fat</b> <input type="checkbox"/><br><b>Low Fat</b> <input type="checkbox"/><br><b>No Fat</b> <input type="checkbox"/> | <b>Sample</b> _____<br><b>Fat?(Y/N)</b> <input type="checkbox"/><br><b>High Fat</b> <input type="checkbox"/><br><b>Low Fat</b> <input type="checkbox"/><br><b>No Fat</b> <input type="checkbox"/> |

**Questions:**

- Which foods that you tested were **relatively high** in fat content? \_\_\_\_\_  
 \_\_\_\_\_
- Which foods that you tested contained **no detectable fat**? \_\_\_\_\_  
 \_\_\_\_\_
- Describe a **positive test** for fat when brown paper is used. \_\_\_\_\_  
 \_\_\_\_\_
- What was the purpose of putting just **plain water** on one of the squares? \_\_\_\_\_  
 \_\_\_\_\_
- Can fats come from **plant** sources? \_\_\_\_\_