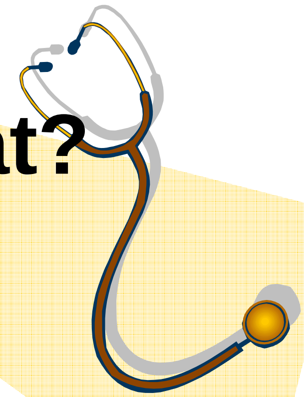
HS – Activity #2



How Much Can You Eat?

QUESTION: What percentage of a fruit is edible?

MATERIALS:

- balance
- fruit assortment (raw) - 5
- kitchen knife
- nut assortment (in shell) - 5
- oranges - 5
- spoon

PROCEDURE:

1. Write down in the Data Table the names of the 5 fruits.
2. Examine each piece of fruit and predict what percentage of the fruit is edible (the part you actually eat). Record your prediction in the Data Table
3. Use the balance to determine the mass of each of the pieces of fruit and record the mass of each in the Data Table.
4. Next, separate the edible part of the fruit from the non-edible part. You may need to use a spoon, a kitchen knife or your teeth (feel free to eat the edible part if your want). Once the edible part of the fruit has been removed, determine the mass of what is left (the inedible part of the fruit), and record the mass.
5. Repeat Step 3 with all the other fruit.
6. Determine the amount of the fruit that is edible and record this in the Data Table.
7. Determine what percentage of the fruit is inedible by dividing the mass of the inedible part by the mass of the whole fruit. Record this percentage. See below.

Mass of	÷	**Mass of**	=	**Mass of X 100**	=	**% of Fruit**
inedible		**whole Fruit**		**Edible**		**that is Edible**

8. In the Data Table write down the names of the 5 nuts.
9. Complete Steps 2-7 with each of the nuts.
10. Construct a graph of the data you collected.

DATA: See next page

QUESTIONS:

1. What is a fruit and what is its function?
2. Of the fruit you investigated, which one had the greatest percentage of edible material?
3. What is the average amount of edible material for the fruit used in this activity?
4. Is any of the inedible part of the fruit usable? How?
5. What fruit is the best buy?

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Data Table

Fruit/Nut	Predicted % of fruit that is edible	Mass of whole fruit	Mass of edible part	Mass of inedible part	Actual % of fruit that is edible