

Name:	
Date:	

## How Much of a Banana is Edible?

Description: You will sample several bananas. From your investigation you will develop a formula relating the edible part to the total mass of the banana.

Hypothesis:	
Materials:	

- 1 banana per student
- Triple Beam Balance
- Calculator

## Procedure:

- 1) Predict and record the edible percentage of your banana(s).
- 2) Measure the mass of the unpeeled and peeled banana and record the results in the data table.
- 3) Find the ratio of the edible part to the total mass by dividing the mass of the peeled banana by the mass of the unpeeled banana.
- 4) To convert this figure to percent, multiply the ratio found by 200.
- 5) Graph the percentage of your banana that is edible on the graph.
- 6) With your group, develop a mathematical formula that represents the edible portion of the banana.

## Data Collection

	Total Mass (g)	Mass of Peel (g)	Mass of Edible Part (g)	Ratio of Edible (g) Total (g)	% of Banana that is edible
Banana 1					ell .
Banana 2		n.			
Banana 3		-1			
Banana 4					
Sum					
Average					

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## Ratio of Edible Part

			1/20 010	O, LO	IDIC FC	11 C			120	
0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
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				0% 10% 20% 30%	0% 10% 20% 30% 40%	0% 20% 30% 40% 50%		0%       10%       20%       30%       40%       50%       60%       70%         0	0%       10%       20%       30%       40%       50%       60%       70%       80%	0%       10%       20%       30%       40%       50%       60%       70%       80%       90%         0

Math	nematical 1	Formula:		40.
Cond	clusion:			on the second se
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			=11 to	

Further experiments.

I Sample several other Foods - From your investigation develop a formula relating the edible part to the total mass of the banana

Many Foods are packaged in plastic, aluminum, & Many Foods are packaged in plastic, aluminum, & other materials. This packaging material adds to the weight & cost of many manufactured foods. Sample weight & cost of many manufactured foods. Sample several packaged Foods. From your investigation several packaged Foods. From your investigation develop a formula relating the edible part to the develop a formula relating the edible part to the develop a formula relating the edible part to the