



stem4math

# Beverage Factory



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## Engage

Write down below why you should make a tasty and healthy beverage with your class mates

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## Investigate

### A recipe for a tasty and healthy beverage

Characteristics of our beverage:

Our beverage has to be:

- 1) .....
- 2) .....
- 3) .....
- 4) .....



## Beverage 1

Name of the beverage = .....

Basic ingredient = .....

Other ingredients =

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## Beverage 2

Name of the beverage = .....

Basic ingredient = .....

Other ingredients =

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Write in the boxes on the next page the recipe and what you think about it after tasting.

### Pay attention to:

- Recipe needs to be clear → the amount of each ingredient
- The amount of the samples is **maximum 20 ml!!!**
- After tasting you only change **1** thing in the beverage!!!! This is what scientists also do!



Beverage 1

attempt ...: (write down the recipe!)

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We like it.. or not:



Beverage 1

attempt ...: (write down the recipe!)

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We like it.. or not:



Beverage 1

attempt ...: (write down the recipe!)

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We like it.. or not:



Beverage 1

attempt ...: (write down the recipe!)

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Beverage 1

attempt ...: (write down the recipe!)

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We like it.. or not:



Beverage 1

attempt ...: (write down the recipe!)

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We like it.. or not:



### Beverage 2

attempt ...: (write down the recipe!)

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We like it.. or not:



### Beverage 2

attempt.....: (write down the recipe!)

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We like it.. or not:



### Beverage 2

attempt ...: (write down the recipe!)

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We like it.. or not:



### Beverage 2

attempt ...: (write down the recipe!)

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We like it.. or not:



### Beverage 2

attempt ...: (write down the recipe!)

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We like it.. or not:



### Beverage 2

attempt ...: (write down the recipe!)

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We like it.. or not:



What does the jury think of the 2 beverages?

## EVALUATION FORM

Name of the beverage 1: .....

Recipe:

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.....  
.....  
.....

Calculation of the price for 1 beverage:

.....

Score of the price, compared with all the beverages made in the class: .....

Test:

What? (4 characteristics)	How?	Results Jury:			Total:
		1	2	3	



## EVALUATION FORM

Name of the beverage 2: .....

Recipe:

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Calculation of the price for 1 beverage:

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Score of the price, compared with all the beverages made in the class: .....

Test:

What? (4 characteristics)	How?	Results Jury:			Total:
		1	2	3	





## Create

### RECIPE OF OUR BEVERAGE!

Based on the remarks of the jury we can optimize our beverage. What will we change? Why?

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After testing: this is our final recipe (20 cl)

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How many ingredients do we need in order to have enough drinks for ..... people (e.g. the class group, parents, the whole school, ...). How much will this cost?



Volume of ingredient in one cup (20cl) - Price	Volume of ingredient for ..... cups - Price

Remarks:

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## Report

Now let's evaluate all the work done. Report about positive and less positive aspects of this project. Explain your difficulties during the process.

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I will remember this activity because

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