

Projeto Erasmus+
KA229 – School Exchange partnerships
2019-1-PL01-KA229-065150_5

“Developing key students' competences and strengthening self-esteem through their personal Development”

Fruit Spaghetti

Material:

Mango juice	Syringe
Agar	Silicone tubes
Spatula	Tina
Electronic Balance	Ice
Electric plate	Water
Lab glass rod	Graduated cylinders
clothespins	

Instructions:

- Measure 100 ml of juice in a beaker.
- Add 1.6 g of agar-agar, stirring to facilitate dissolution.
- Heat the mixture until it boils.
- Stir until completely dissolved.
- Use the syringe to withdraw part of the prepared solution into the silicone tube.
- Place the silicone tube on the syringe tip.
- Remove the syringe, place the tube on the ice to solidify and wait for about 1/2 minutes.
- Repeat for the other tubes
- Fill the syringe with air and reconnect it to the tube so that the spaghetti, already solidified, comes out of it.
- Serve.

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Fruit Caviar

Material:

Strawberry juice	Pipette
Sodium alginate	Beaker
Spatula	Tina
Electronic Balance	Calcium chloride
Electric plate	Water
Lab Glass Rod	Graduated Cylinders

Instructions

- Measure 100 ml of juice in a beaker.
- Add the sodium alginate (1 g for every 100 g of preparation) to the juice, stirring to facilitate dissolution.
- Shake until completely dissolved. (Use the Blender if necessary)
- Introduce a little of the prepared mixture in a pipette.
- Prepare a 1% sodium chloride solution (100 mL of water to 1 g of sodium chloride)
- Drop the juice mixture, drop by drop, into the beaker or tina containing the calcium chloride solution.
- Strain the “caviar”, and move them to a container with clean water
- Place the “caviar” on a plate.
- Serve.

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1...2...3 ...instantaneous ice cream

Material:

- Fruit
- yogurt
- ice;
- salt;
- plastic bag with zip;
- closed container
- rubber gloves

Instructions:

Mix in a container an equal amount of fruit and yogurt.

Put the mixture in a zip bag

Place ice in the plastic container and add half a glass of salt

Place the mixture bag over the salted ice

Put ice and salt back on top.

Close the container.

Shake vigorously for 5 minutes, switching between the rest of the group.

Serve

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Egg science

Instructions Part I:

- I - Carefully remove the materials that are inside the beakers A and B. Touch gently. Register.
- II - Compare the egg size of beaker A with the egg on the tray. Register.
- III - Present a hypothesis for the state of the materials that were inside the beakers.
- IV - Test the previous hypothesis. (Call the teacher first and inform her of the hypothesis)

Instructions Part II:

- I - Carefully analyse the two eggs you have on the board.
- II - Record any differences you find between them.
- III - One of the eggs is cooked and the other is raw. Try to identify them.
- IV - Carefully rotate the two eggs.
- V - Record the results