cesire

Food preservation

Many food products that we buy in shops have a small number of microorganisms. This does not mean that they can't be eaten but this means that if these microorganisms multiply they can make those products unsuitable to be eaten.

Here we propose you to investigate different methods to preserve food.

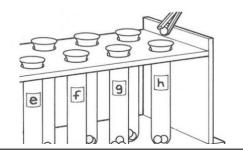
Needed material:

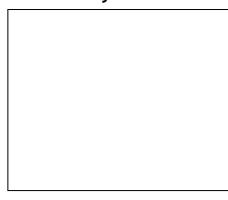
- Frozen peas	- 8 test tubes
 Diluted saline solution 	- Tweezers
 Concentrated saline solution 	- Cotton pads
- Solution of sodium nitrite	- marker
- Vinegar	

Class 1: You need to follow the procedure that it is indicated on the left part of the following diagram and write on the right part why you have done each of the indicated steps:

Procedure: why:

With the marker write on the 8 test tubes letters: A,B, C...Gand write down the date on each tube. With the tweezers insert 3 peas inside each tube.







Fill in until the middle the tubes from C to G by following these indications:

C: distilled water

D: Diluted saline solution

E:concentrated saline solution

F: vinegar

G: solution of sodium nitrite





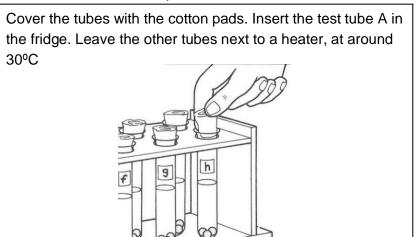
Aquesta proposta s'acull a una Ilicència Creative Commons BY-NC-SA.

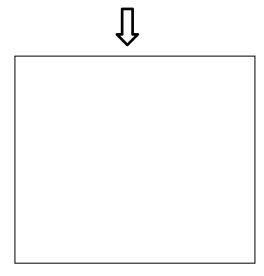
http://creativecommons.org/licenses/by-nc-sa/3.0/es/deed.ca



cesire







Class 2:

- a) Describe the aspect of the peas in each tube. Write on a Chart your observations about what has happened in each tube.
- b) From these observations, what effect does temperature have in the development of microorganism? Which two test tubes do you need to compare to answer this question?
- c) Why do food products become unsuitable to eat?
- d) How do the different food preservation methods work?
- e) Some food products are preserved thanks to vacuum packages. How do you think that vacuum packaging may influence in the development of bacteria? Why?
- f) Why do you think that may food products that have been packaged contain the sentence "Best before..."
- g) Which food preservation methods do you use at home?

