

HYPOTHESIS:

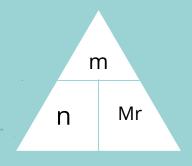
The more concentration of salt the more the cell gets damaged.

## Based on the concept of Molarity

we are gonna test different solutions with different molarity of NaCl (1M, 2M, 3M, 4M, 5M) and then I'm gonna put it in different pieces of onion with iodine so that the sell difference is visible.

# Molarity:

ls the amount of mol in one liter



$$M = \frac{n}{1L}$$

$$N = \frac{m}{Mr}$$

### Experiment

- 1. Find the mass of: 1M, 2M, 3M, 4M, 5M, of Naci
- 2. Preparation of solutions with different molarity
- 3. Prepare microscope and micro preparations of onion cells in solution with different Molarities
  - 4. Compare of pictures and explanation

### Solution preparation

#### steps

- 1. Mr (NaCl) = 23+35.5= 58.5
- 2. 1n (NaCl) = 58.5 g|mol

Than we need to divide it by 40 because

we will use 25 ml instead of 1l

$$1n (NaCl) = 58.5 \times 1 = 58.5 \div 40 = 1.46 g | mol$$

$$2n (NaCl) = 58.5 \times 2 = 117 \div 40 = 2.92 \text{ g} | mol$$

$$3n (NaCl) = 58.5 \times 3 = 175.5 \div 40 = 4.38 g | mol$$

$$4n (NaCl) = 58.5 \times 4 = 234 \div 40 = 5.85 g | mol$$

$$2n (NaCl) = 58.5 \times 5 = 292.5 \div 40 = 7.31 g | mol$$



#### steps

We weight the proper mass of NaCl using balances

> Paper also has mass so we add the mass of the paper and than we try to get the result for n1+2.52=3.98

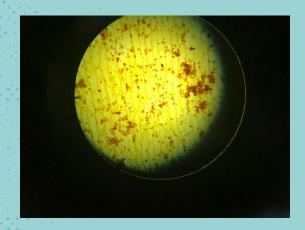
So now we added the salt to the 25 ml of water and mix it

## Preparation of Microscope

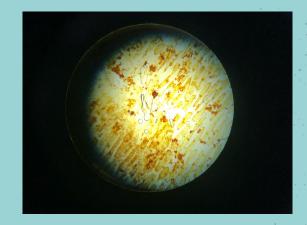
and preparation of micropreporations of onion cells in different molarity solution



### Results



This is the one with clear water



This one is with water mixed with 1M of salt

I wasn't given the material that I asked my classmates for so I can't show the difference by higher concentration of salt so I will have to show the difference by concentration of water with salt and with clear water.

# According to our research our hypothesis was confirmed



### Tell me...

Questions

Any questions that you might want to ask

Feedback & Evaluation

What did you think about my presentation

Improvement

What could I improve about my presentation

