

## JANUARY WORK PLAN

Dear project partners, the month is dedicated to physics sciences as our project is steam.

You can find our January activities below.

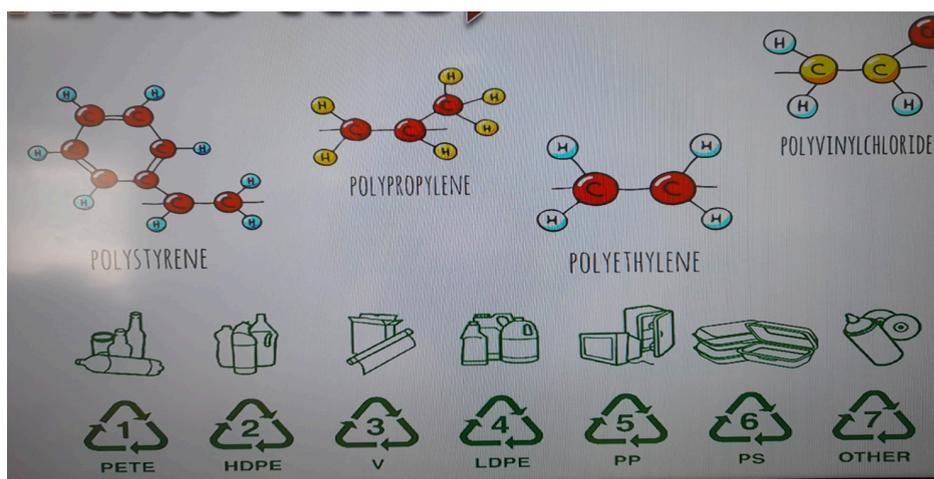
### WORKS TO BE DONE IN JANUARY

#### 1. Save the sea. Students will do an experiment. **Deadline 10 February 2023**

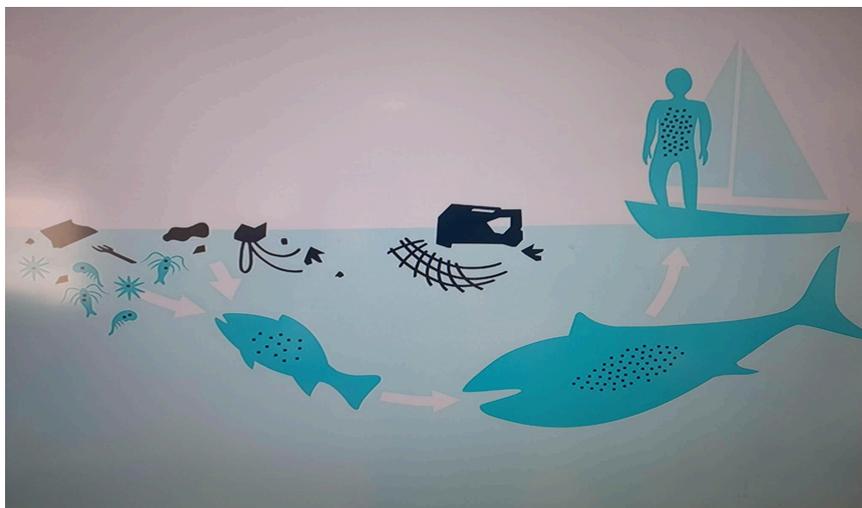
The aim is for the students:

**A) To know some negative effects caused by plastic materials. (to the environment but also to human health).**

There are different types of plastics (polypropylene, polystyrene, etc). Every plastic package or bottle has a recycling symbol. This symbol is a number from 1 to 7, inside a triangle. These symbols offer important information about the toxic chemicals used in the particular plastic, how likely the particular plastic is to release some of these substances into its contents (ie the food and drinks it contains), how biodegradable plastic and ultimately how safe is it for your health.



On the beaches we see a lot of plastic garbage. Where do the chemicals in plastics end up?



### ***What is the rate of decomposition of plastics in the sea?***

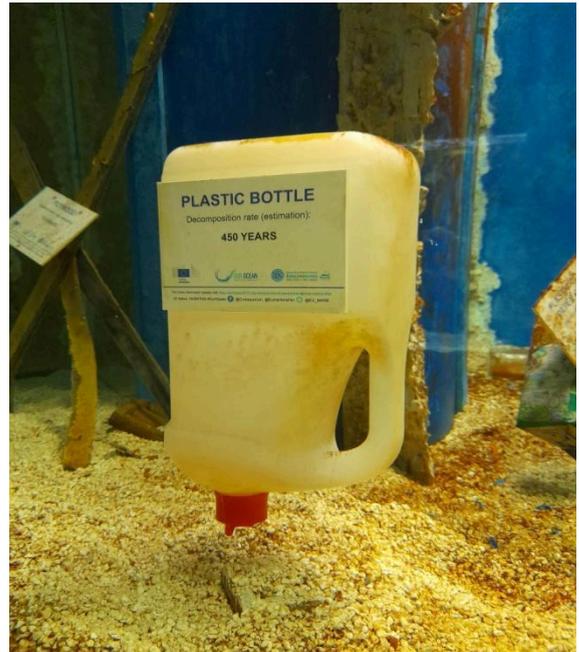
For example : plastic bottle = 450 years

Styrofoam cup =50 years

Cigarette butt = 1-5 years

Agents, Over 60 million straws are consumed every day worldwide. These straws when in the ocean do not dissolve, but break into smaller pieces of plastic that are even more dangerous. The straw we use to drink the juice when we are thirsty, we use it for less than 30 seconds and then it continues to exist on earth for about 200 years.!!!!!!!

You can find more information on the web.

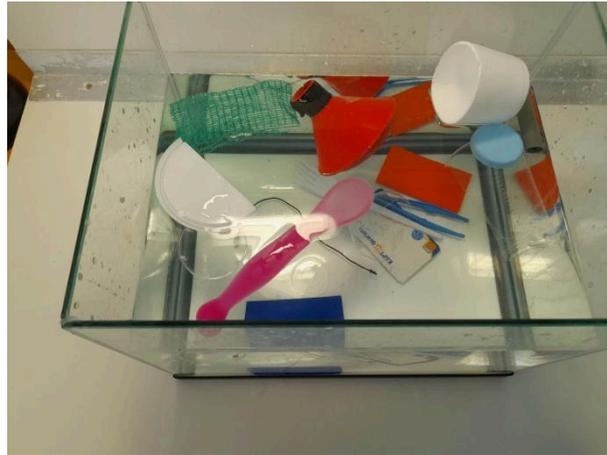


Research has shown that there are 150 million tons of plastic in the sea. Humans cause this pollution unfortunately.

**The agents will conduct an experiment to observe how durable the plastic can be in time and durability. They will also learn why some plastics float and others sink .**

#### **Worksheet 1. sink - float**

- 1.Find plastic items we see in the sea. For example plastic bottles, forks, spoons, glasses, straws, a piece of plastic bag, a piece of fishing net, bottle caps, a piece of plastic packaging. All plastics.
2. Fill a basin with water.
3. Distribute all the plastic items to the students.
- 4.Print the [worksheet 1](#) and share it with your students.
5. **Before** a student leaves the plastic item in the basin of water, you must ask him. " Do you think plastic will float or sink? let the students complete their worksheet and then the student will do the experiment.



**After the students have dropped all the plastic items into the basin,** you will discuss the answers to the worksheet.

-why do some plastics float and others sink? What is the reason?

**"the material an object is made of determines whether it will float or sink"**. Remind students that there are many types of plastics (polypropylene, polystyrene, etc).

An [online game](#) made by Yuksel for your students.

Questions for reflection:

-Do you think plastic items will dissolve in water?

-If we throw a piece of paper into the basin, which will dissolve faster, the plastic or the paper? Why?

### **B) To reflect on their own habits regarding plastic materials.**

Task your students with listing the plastics they use at home and at school and how they could replace them.

For example, in Greece we use a lot of plastic straws. Should we replace them with reusable bamboo straws or other material?

We use a lot of plastic water bottles, plastic cups, plastic bags, etc. How can we replace our plastic habits?

### **Worksheet 2. Habits**

- ***Images of these works will also be uploaded to the padlet (each in his own name) :***  
<https://padlet.com/savethesea22/c2s3gzapp8cbirrk>
- **Also, dear partners, I would like you to upload the images from your activities (experiment, worksheets) to the [google slide](#).**
- **Finally, I would like all of us to collect the data from our students' activity ([worksheet 2](#)) on this [table](#). It would be ideal to read all completed sentences so as not to repeat the same ones.**
- **A [questionnaire](#) created by our member Anthi Chalkiadaki . This is a small evaluation . Please , submit your answers until **20 January**. This is for partners and students. This is a December activity. *I am sending this as a reminder.***

## **STUDENT WEBINAR**

Dear partners, if you want to meet a partner school online, write your name, school, country, e-mail address, days, and times when you are available on the [table](#) . The email address can be used to decide who of the two partners will schedule the online meeting (via Zoom, Google Meet, or other platforms) and to send the link of the videoconference to your partner.

## **SAVE THE DATE**

1. **Save the sea. Students will do an experiment. Deadline 10 February 2023**

**Thank you very much :**

Yuksel Ertuğrul for the online educational game

Vasiliki Kazana for the worksheet “habits”

Georgia Foukaraki for the worksheet “ sink - float”

## **THINGS TO PAY ATTENTION**

1. For security reasons, it should be ensured that the faces of our students are not visible while taking their photos.

2. When uploading to Twinspace, your "name and surname/name of your school/country" must be written in full. For example: Papazoglou Evangelia/ 24 Primary School Heraklion / Greece

