

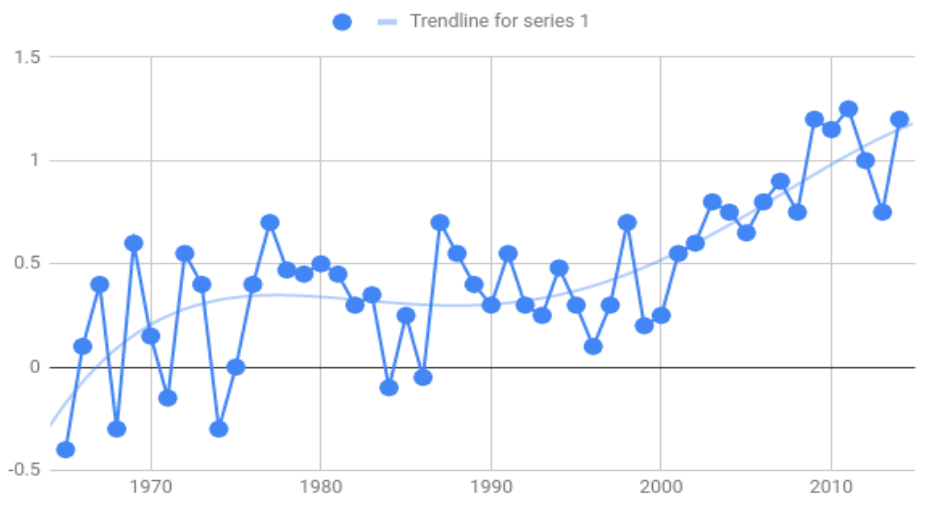
Introduction : These last years our planet known an important temperature rising due to several facts. Because of that, there are a lot of consequences on our planet. Unfortunately, those consequences are not so good, and we can see the impacts of global warming on our environment, even in our island.

What is Global warming due to ?

First of all, to understand **what Global Warming is**, you need to know all the factors that lead our Earth to this actual state.

Indeed, a century ago, Earth used to be healthy but with certain inventions created by human beings, it started to go wrong and it's now going worse. The causes of this rising temperature are :

- **Carbon dioxide emissions increased**
- **Greenhouse gases released by fossils fuel, land cleaning, agriculture and other humans activity.**



Graph about temperature variations of those last years in Reunion.

Activities 1: Link the words with the right definition:

Words:

1. CO2
2. Temperature
3. Transports
4. Power production
5. Renewable energies

Definitions:

1. a measure of the warmth or coldness of an object or substance with reference to some standard value.
2. It's divided in two categories: renewable and fossil. It is mostly used to create energy such as electricity.
3. it's a way of moving from a place to another. It can be in the air or in the water or in the ground. Some are ecological like bikes and others are toxic for the Earth and participate in the Global Warming by examples car, which produces gazes.
4. Renewable energies are ways to generate energy from unlimited natural resources. These resources are either available with no time limit or replenish more quickly than the rate at which they are consumed.
5. The first natural greenhouse gases produced by breath (from animals, plants and humans) and by fossils ... with ...
Also known as Carbon Dioxide

Activities 2: “Energy trip”: you will have to fill the documents with the help of the one have the document and can’t see the text, the other one has only the text and you will have to discuss together in order to share your informations.

“Réunion island is such a place with beautiful landscapes, to preserve this amazing environment they use some renewable energies!

Let’s do a tour of the island!

We begin our trip at L’étang Salé known as the Black Sand Beach.

Besides having a nice beach you can find the solar farm of l’Étang salé with photovoltaic panels which can protect an agricultural activity. Further we go to Saint-Louis where is the biomass factory of the Gol, indeed biomass is energy in organic form,exploited by combustion. In Reunion, the main source of biomass is the rest of the sugar cane, once the sugar is extracted and used as fuel. Let's start now the path leading to St Rose, you know where there are lava paths,

If you look at the rivers, you could see the hydraulic power station of La Rivière de l’Est that uses the power of water to make energy. After the sun, the sugar cane and the water what can we have? The wind! In the north East of the island there is wind turbines with the wind farm of La Perrière in the North-East of the island with 37 wind turbines! There is also in the area the biomass factory of Bois rouge . To finish our trip we stop to Saint Paul to visit an other hydraulic station and after this we gonna eat at the beach. I hope you enjoyed this tour and see what can be the alternative of those non renewable energies that pollute our environment.”



1: Farm of La Perrière

2: Solar Farm

¾ : hydraulic stations

⅕ two biomass factories

CONTROL AROUND WASTE :

1st activity :

Students will have to think about the problem of waste in Reunion by groups. With the help of all the documents, they will have to find an answer to this problem considering the situation in Reunion (these can be answers of any sort, and the more they are respectful of the environment better they are).

Then after, Students will gather their ideas all together to determine which is the best one (by a vote for example). The group with the best idea win the "Nobel prize of future waste controllers" (previously made by ourselves :)

2nd activity :

-Kind of dobble game : card game ->

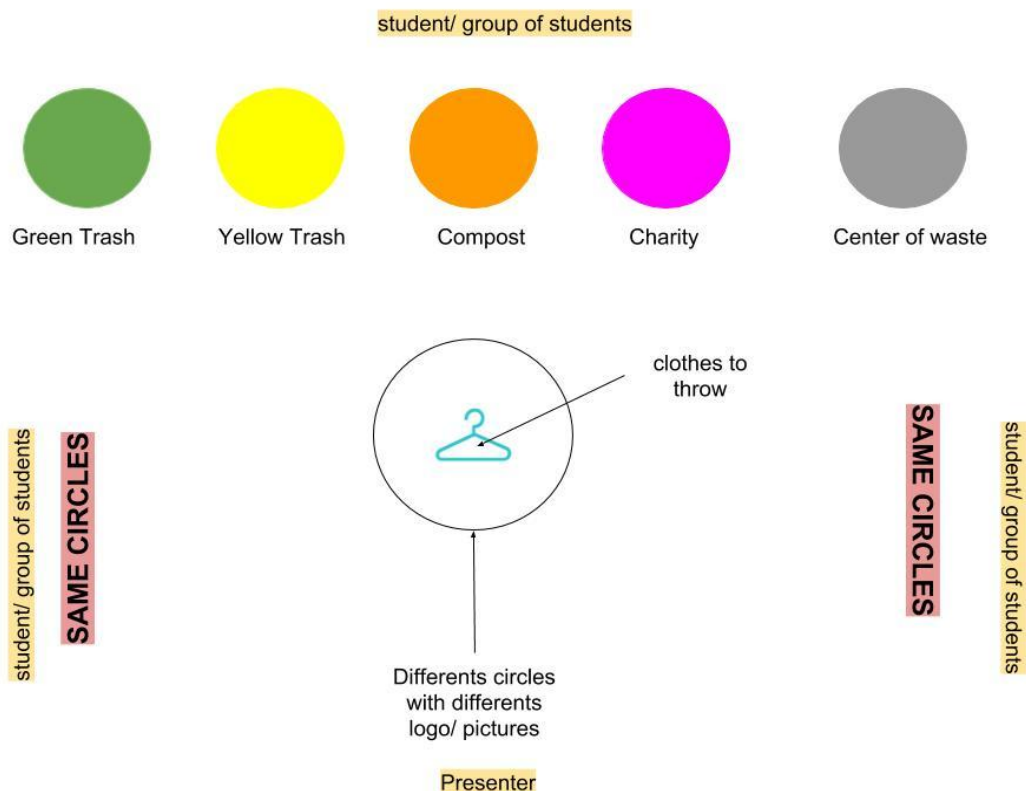
_____ -each student or group of students have 5 circles in front of him which represent different categories to sort the waste

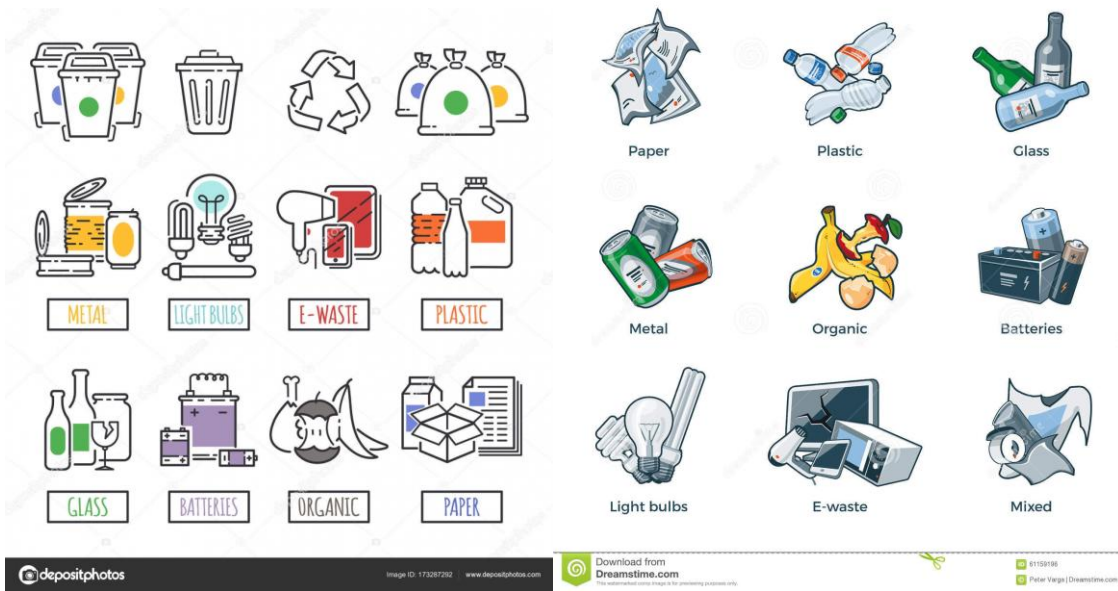
-then one presenter have to show a card/circle which represent a waste

-then the different students or group have to say firstly in which category this waste have to be sort and the answer have to be correct and quickly justify

-and at the end of the game the student or the group of students who have the more numerous card/circles win the game

-> illustrate draw in the second page



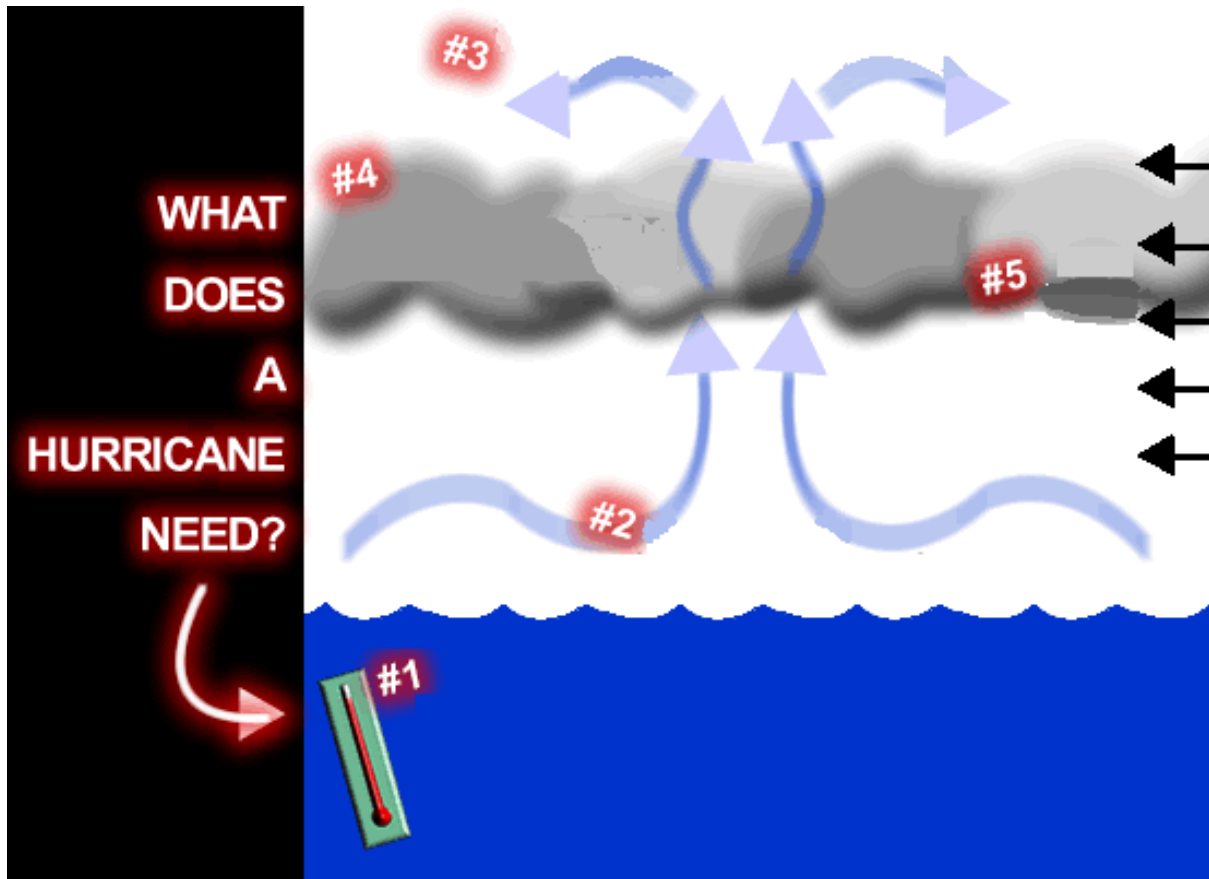


movie : <https://www.youtube.com/watch?v=pEaZoJUIYoo>

<https://www.youtube.com/watch?v=0VKOVbD9LNg>

HURRICANE ACTIVITY :

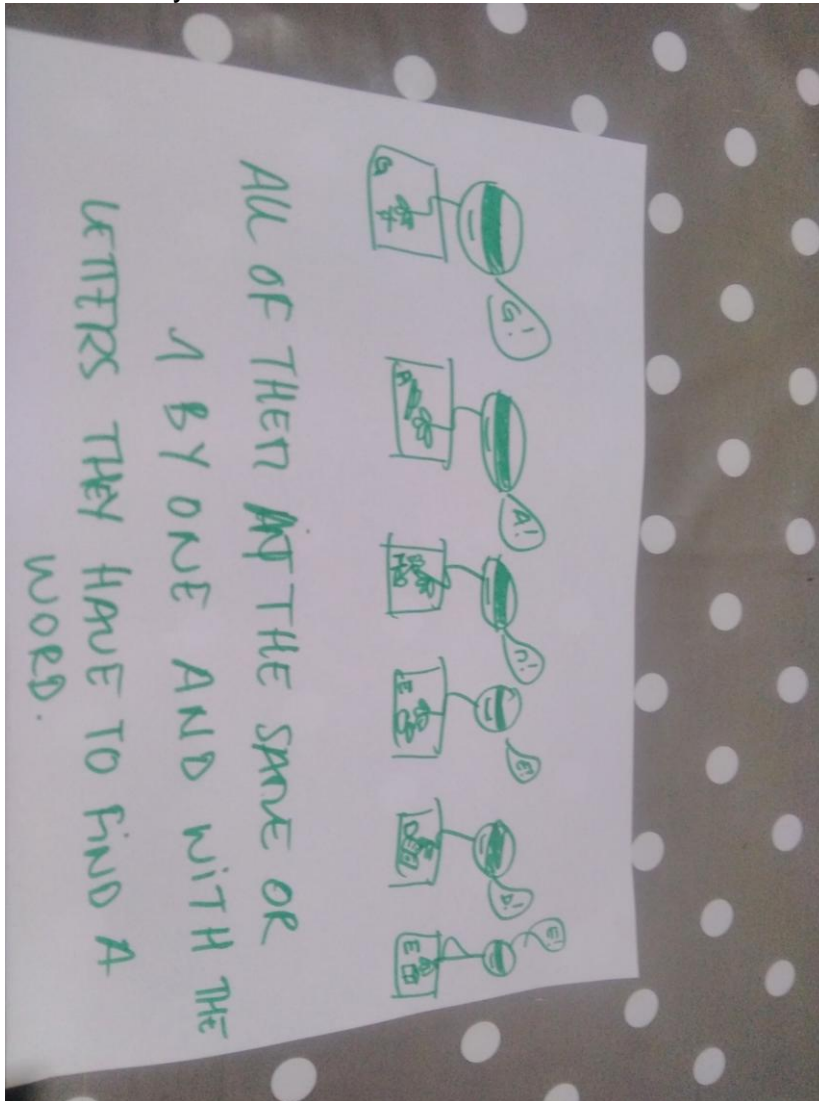
Activity 1: Choose the right number



- Warm ocean water (more than 27° C) provides energy for the hurricane and causes more evaporation making humid air and clouds
= Number
- Winds coming together force air upward
= Number
- Winds flow outward above the storm, allowing the air below to rise
= Number
- Humid air rising makes the clouds of the storm
= Number
- Light wind outside the hurricane steer it and let it grow
= Number

Activity 2 :

You have boxes that are aligned: in them you have letters stick to the box and the letters are recovered by objects (linked to science and etc). The aim of this game is that the team (4 to 5 students) who's blinded, has to find out the word which is the name of a cyclone that occurred here



Can you understand now ?


Or

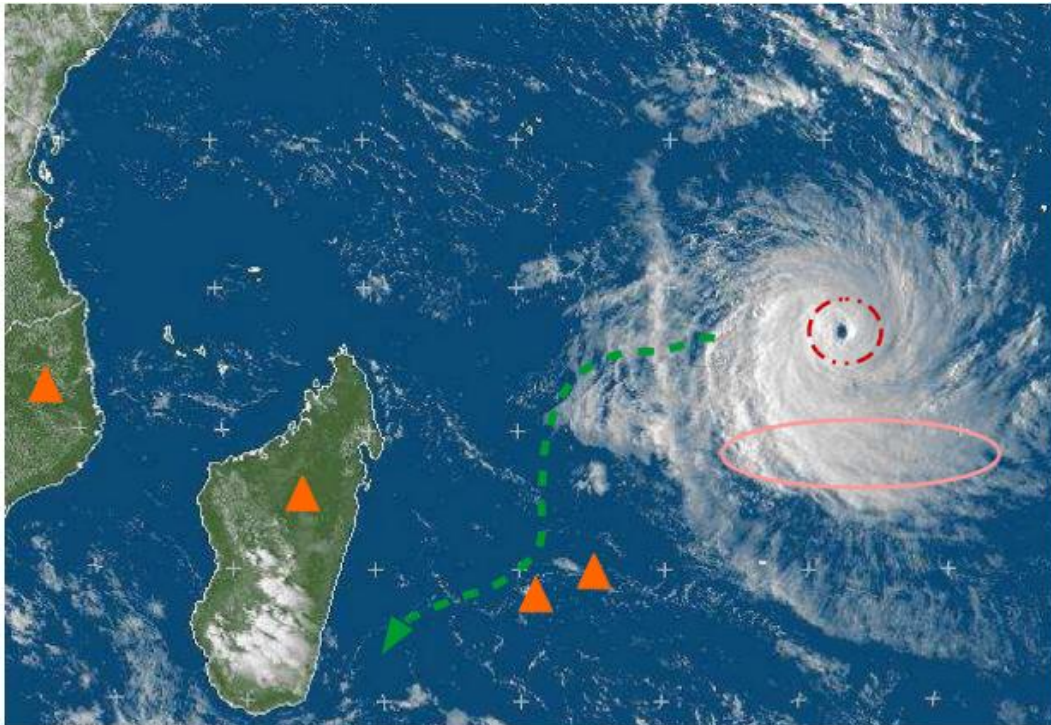
They all have earphones and they are aligned. In the earphone is playing a song about cyclone. The first student, who doesn't have any earphone, has to say to his friend, who has earphones, a word related to cyclone, etc and the last one has to guess and say the right word (like in VTEP) : they have the entire song to find as many words as possible

Or

As a team : They have a short song about cyclone and they have to remember the right lyrics. The first time : 3 listening then each of them has to sing one (or two) right sentences with the right tone and melodies. 4 clues might be given during the game to help the teams (1. Listening to the song one more time 2. A whole sentence 3. Words but not in the right order 4. only the melody is playing once) 2 teams and 2 clues by team

Activity 3 :

- Find what the symbol refers to :
- ----- :
- ----- :
- ----- : 
- ----- :
- My first syllable is the verb be to the third singular person and my last syllable is where the plants grow.
- My first letter is two « U » stick together, my two middle letter mean be inside something, and my last letter is the "say in french"
- this word is a similar too itinerary
- I am the thing on your face that use to see



Activity idea :

Before the actual game starts, we will explain the definitions of the words such as phenomenon like hurricane, wildfire, eutrophication, etc or waste or else. Then, after they learned those words, they will be aligned, with music on earphones (music about global warming or earth protection - prince ea by example). A word (one of the few they learned before) will be showed to the first student of the line. He'll have to say this word to his neighbour or explain to him with gestures, but this student won't be able to hear him. At the time out, the second student call his other friend and on and on. At the end, the last student will have to say the word from the beginning.

Activity 4 : WHAT AM I ?

a definition of each word might be given to the students beforehand.



By pairs or by 3 : one student will find himself with a stick note on his forehead with a word written on it. He'll have to ask questions in order to guess what he is. His friend(s) will only be able to answer his questions by yes or no.

Words :

Hurricane - Waste - Sustainable - Green - Pollinization