



EN-GB

Kids



THE **CL!MATE**
COLLAGE

You're holding all the cards

How to play?

You need one deck of cards per team (6 to 8 pp), a paper roll or tablecloth of 1*2 meters, pencils, rubbers, colour felt pens and some tape.

The aim is for each team to place the cards in order on the table, find all the cause and effect relationships and draw arrows between the cards to illustrate what climate change is about.

Deal the cards set by set and wait until all cards are down on the table before dealing the next set.

Time indications: ~1hour to place the cards, ~1hour to decorate the collage and ~1hour to sit down together for a heart-to-heart discussion.



Reasoning



Creativity



Review



Debrief

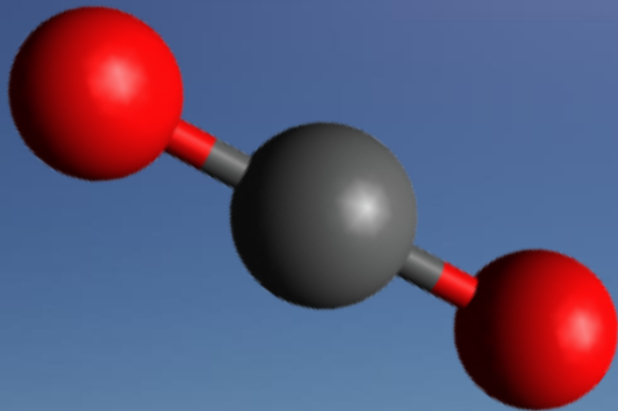
Tip: sort the cards quicker using the blocks on the side!

I travel by car or I fly





Cars and planes need oil to move. Burning oil emits CO₂.

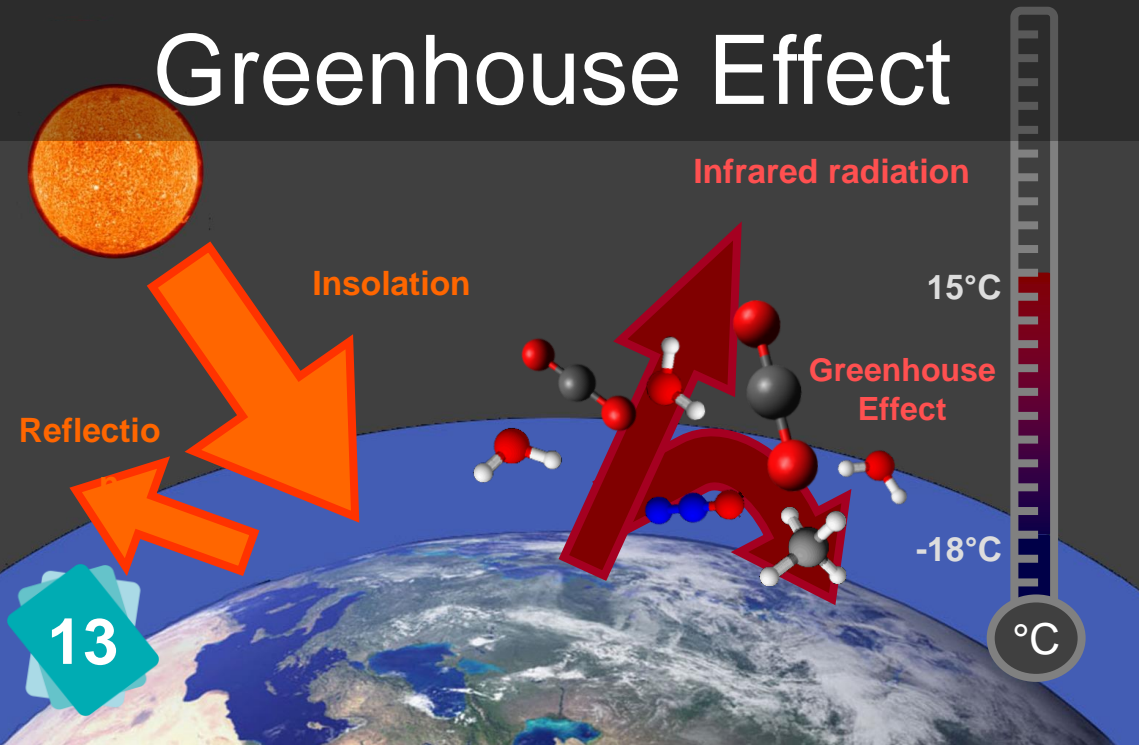


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Human activities (making things, heating or cooling homes and buildings, driving cars, flying...) use a lot of energy and this has led to an increase in the concentration of CO₂ in the air.

Greenhouse Effect





For the last 100 years, the greenhouse effect has been increasing due to CO₂ and methane. As a result, the earth is warming up.

Melting of Sea Ice

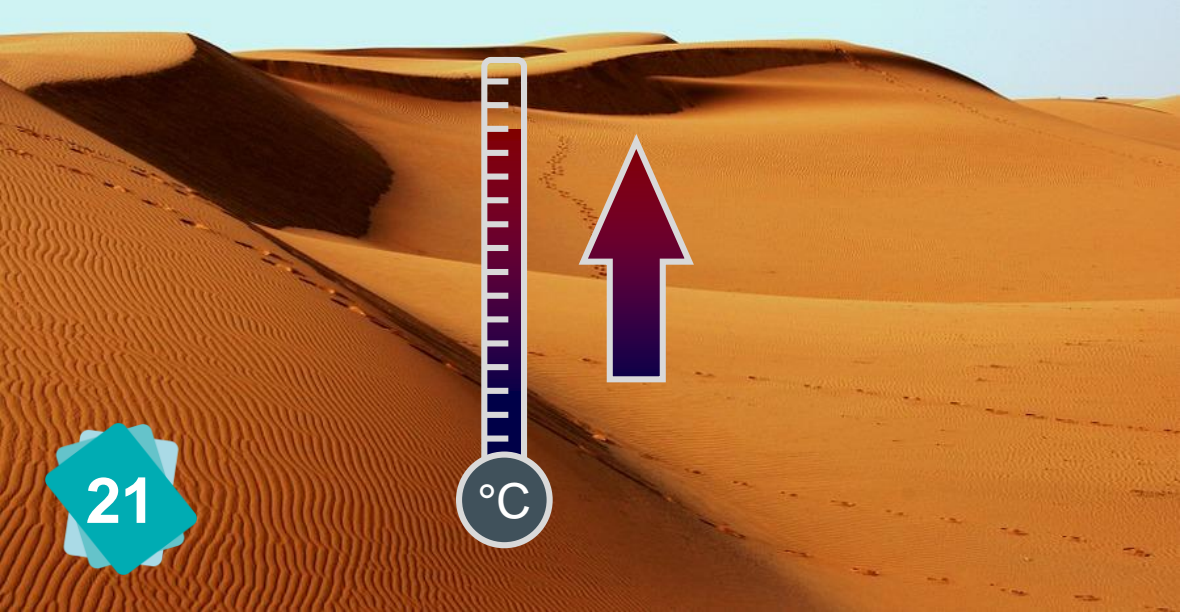
An aerial photograph showing a vast expanse of melting sea ice. The ice is broken into numerous irregular, white patches of varying sizes, separated by dark blue water. Two workers in orange and red gear are visible on the ice, one standing and one kneeling, with a rope extending between them. The scene illustrates the process of ice melting and the resulting fragmented ice floes.

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Photo : NASA

The melting of sea ice is not responsible for the sea level rise. Think of an ice cube that melts in a glass of water: it doesn't make the drink overflow the glass.

Temperature Increases



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Because of the greenhouse effect, the temperature on earth has increased by $+1^{\circ}\text{C}$ and will keep rising, which can have serious consequences for our planet.

I use heating or air conditioning

3





Air conditioning and heating system use energy. Therefore, using them emits CO₂.

Melting of Glaciers



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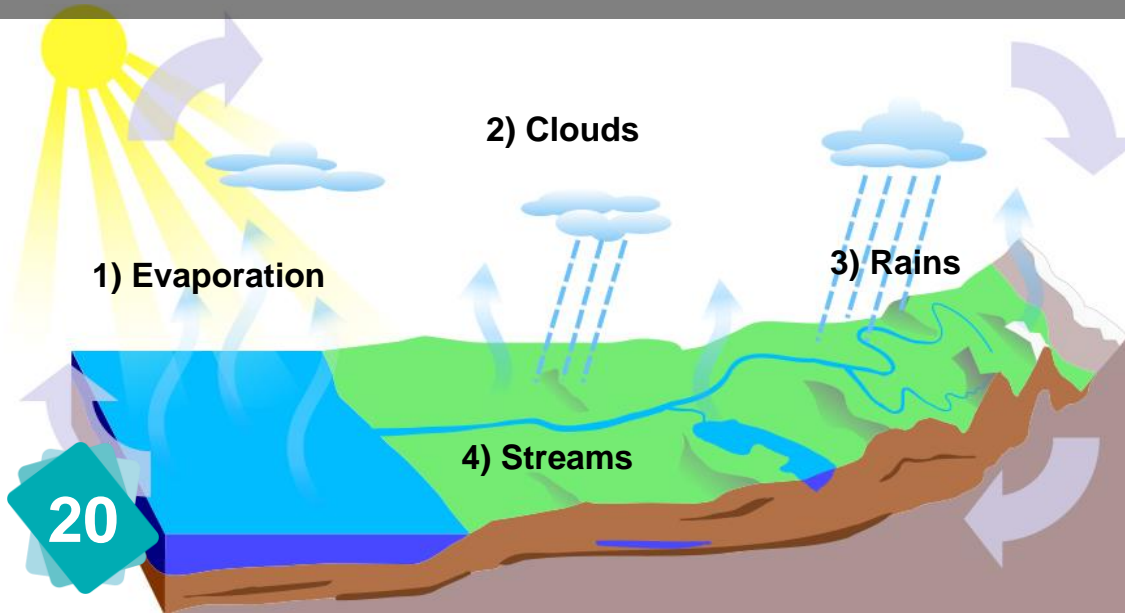
Glaciers are found in mountains like the Alps, or the Himalaya, but also in Greenland and in Antarctica. They are currently melting because of higher temperatures in the air. This means more water in the sea, and therefore the sea level is rising.

Warming of Oceans



The ocean (and all the seas) absorb most of the heat due to the additional greenhouse effect. Therefore, the water in the ocean and the sea is becoming warmer. When water is warmer, it expands.

Perturbation of the Water Cycle



The water cycle describes the chain between water evaporation, the formation of clouds, rain and rivers, etc. If the ground and the ocean become warmer, there is more evaporation and the cycle is disturbed.

River Flooding



Disruption in the water cycle can cause more intense rainfall. These rains can cause river floods.

Heat Waves



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As the global temperature increases, heatwaves are becoming more frequent.

A collage image featuring several smartphones in the foreground on the left, displaying various home screens with clocks, weather, and app icons. On the right, a woman with long brown hair is seen from behind, wearing a black top and holding several colorful shopping bags (green, blue, pink, white).

I buy things

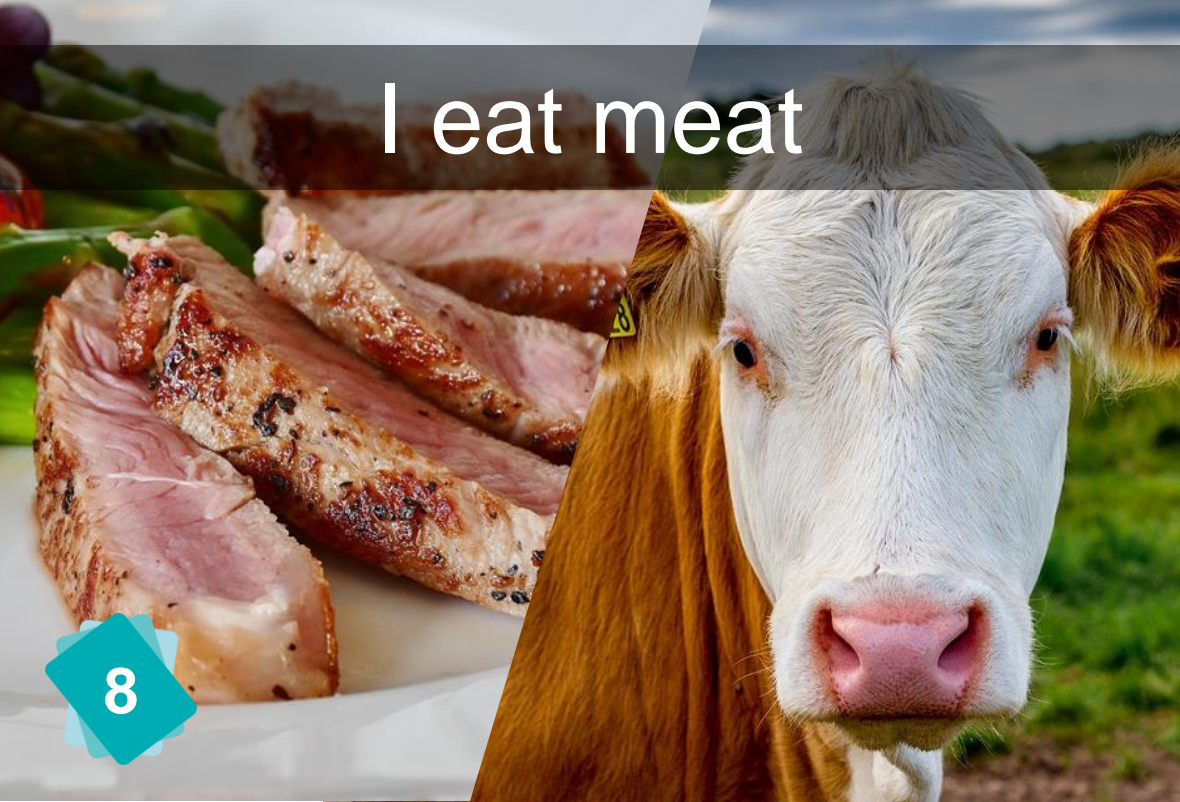
2



Everything we buy comes from the industry that emits a lot of Carbon Dioxide (CO₂). CO₂ is a greenhouse gas (GHG).

I eat meat

8





Cows are ruminants. They release methane when they wind and burp. Methane is a greenhouse gas (GHG), just like CO₂. But it is even more powerful. Raising chicken emits less CO₂ than raising cows.

Sea Level Rise



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Sea level is rising due to melting glaciers.

Biodiversity



25

Animals and plants are affected by changes in temperature and the water cycle. Some species are already disappearing.

Droughts

30

A landscape photograph showing a cracked, dry earth under a cloudy sky, with a dead, gnarled tree on the right side. The ground is covered in a network of deep, irregular cracks, indicating severe drought. The sky is filled with heavy, grey clouds, and the overall atmosphere is somber and desolate.



Disruption in the water cycle
can cause droughts.

Food Production

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Food production can be affected by temperature, droughts, cyclones, floods.

Marine Submersion



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A submersion is a flood caused by rising sea water levels. The rise of the sea level means seaside villages and cities and small islands may disappear in the near future.

Cyclones



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Cyclones draw energy from the warm waters at the surface of the ocean. Therefore when the air and water get warmer, the cyclones get stronger and stronger. Their power has increased because of climate change.

Famines



37



If we produce less food,
famines can happen.

Climate Refugees

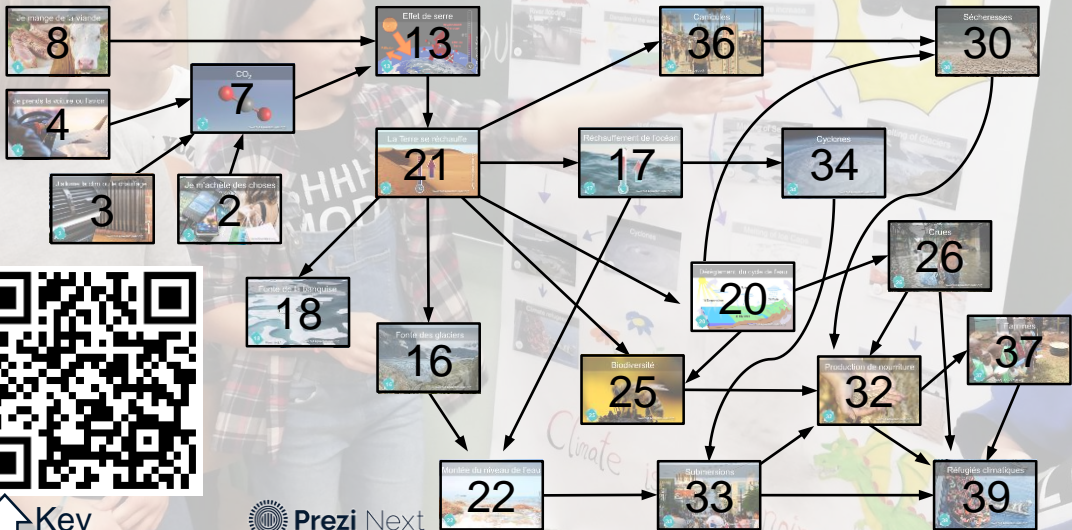
A high-angle photograph showing a large group of people, many wearing orange life jackets, crowded onto the deck of a larger vessel. A smaller, grey inflatable boat with two crew members in white uniforms is positioned nearby, with a rope extending from the larger vessel towards it. The scene is set on a deep blue sea under a clear sky.

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Famines, floods and droughts
are forcing more and more
people to leave their country to
live elsewhere.

Key

<https://prezi.com/view/8C2fH8aPW1BpB05U0RQw/>



The Climate Collage was developed by Cédric Ringenbach. Its distribution is managed by the non-profit association "La Fresque du Climat".

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