



EN-US

Kids



CLIMATE FRESH

All the cards are in your hands!

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 Fresk and ~1hour to sit down together for a heart-to-heart discussion.



Reasoning



Creativity



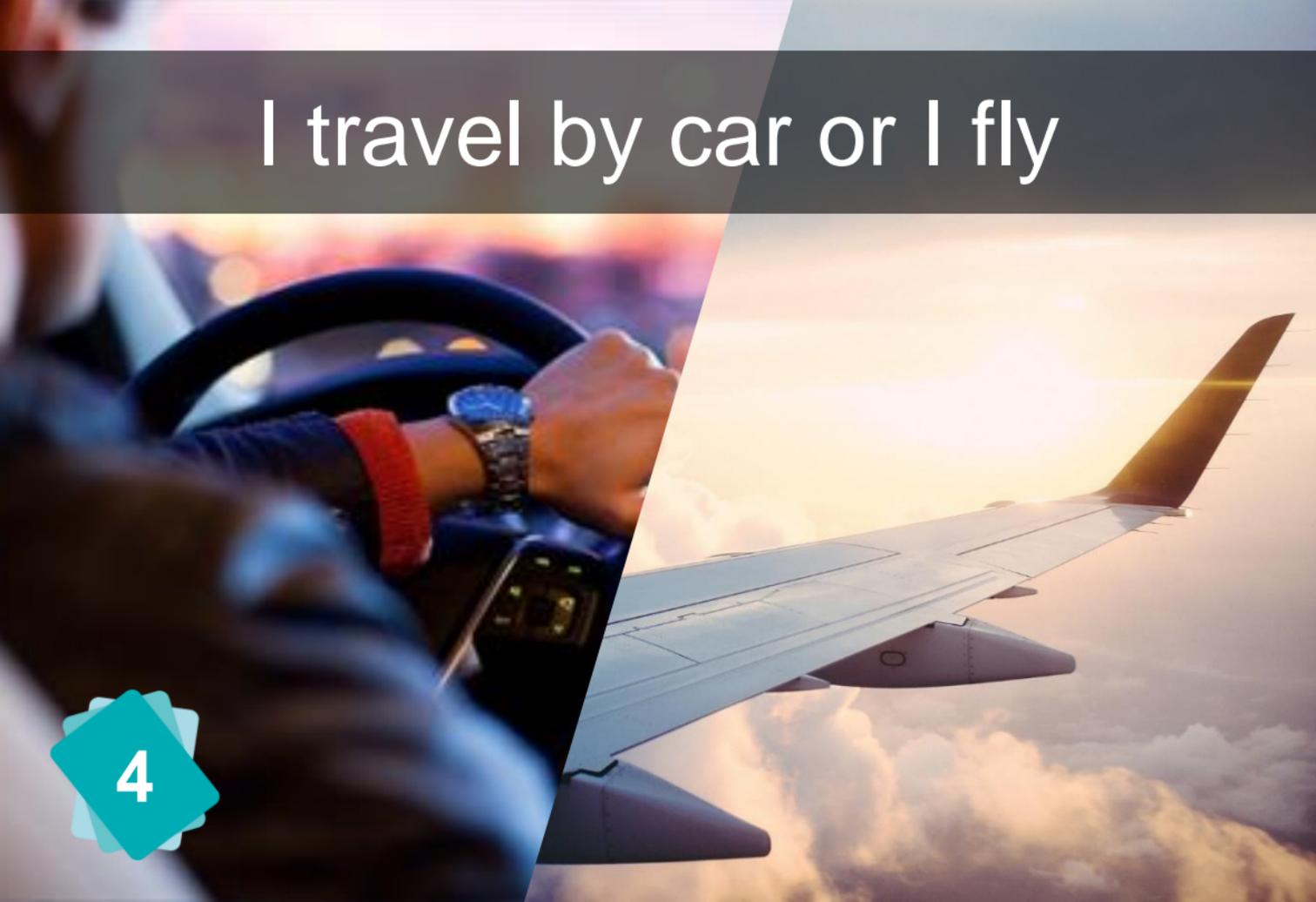
Review



Debrief

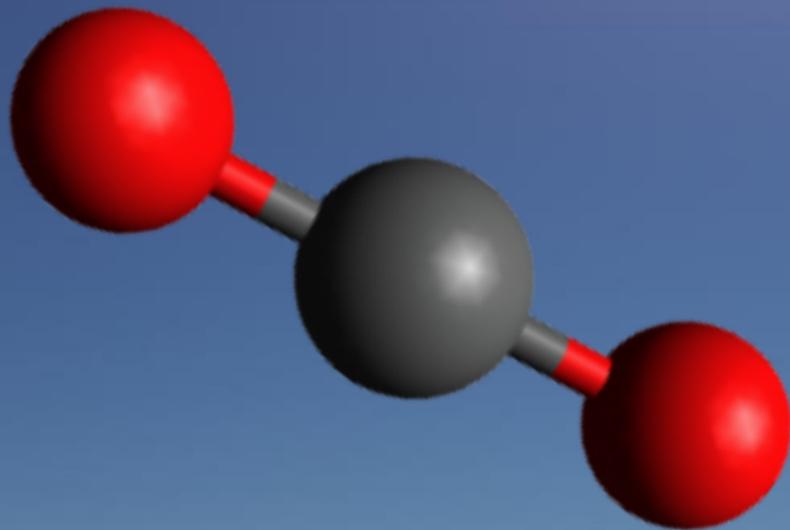
Tip: sort the cards quicker using the blocks on the side!

I travel by car or I fly





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



7



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 CO_2 in the air.

Greenhouse Effect



Insolation

Reflection

13

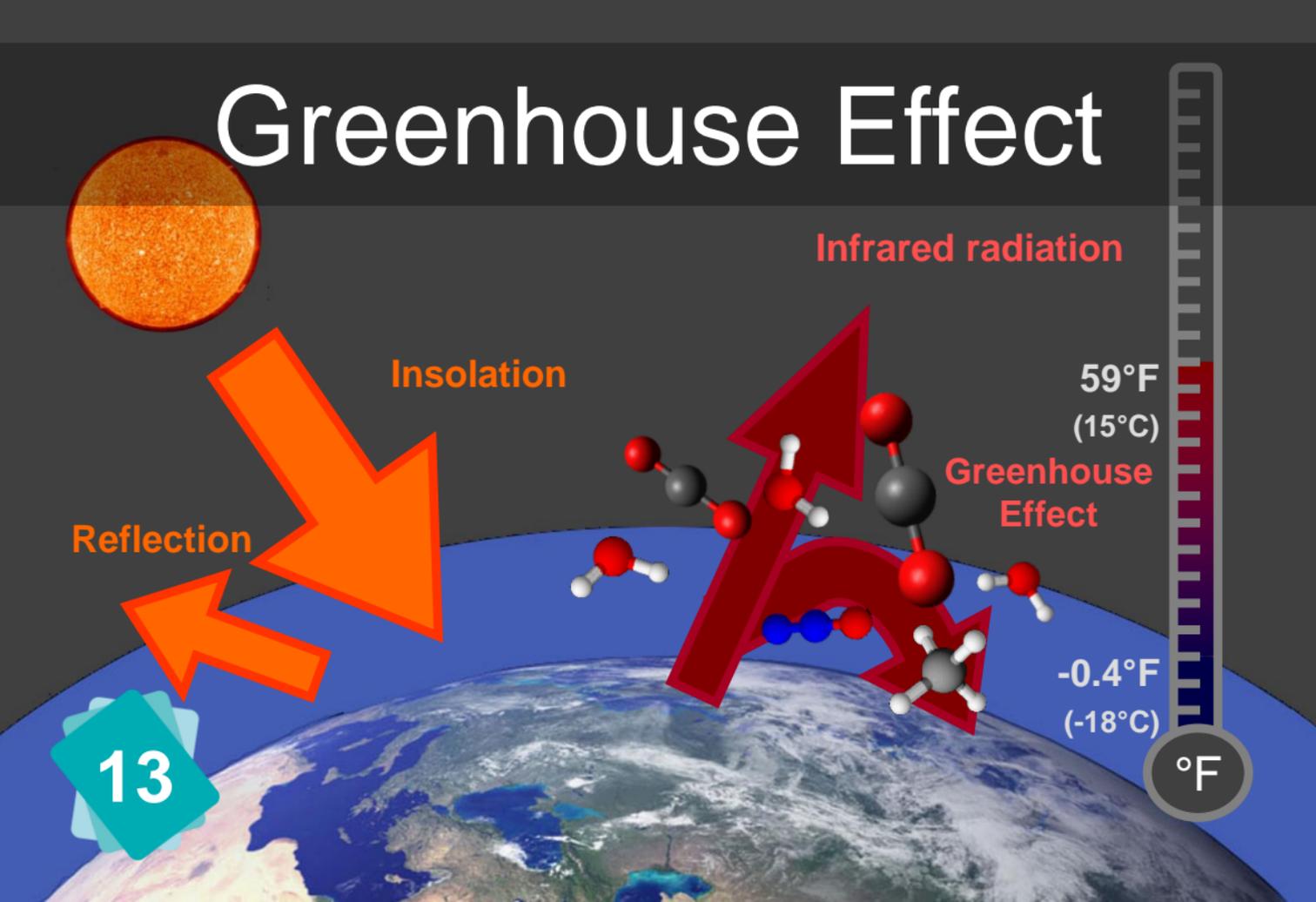
Infrared radiation

Greenhouse Effect

59°F
(15°C)

-0.4°F
(-18°C)

°F





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 floes of varying sizes, separated by dark blue water. Two workers in orange and red gear are visible on a large, flat ice floe in the center-left, connected by a thin rope. The scene illustrates the process of ice melting and the resulting fragmented ice.

18

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



21



Because of the greenhouse effect, the temperature on earth has increased by + 1.8°F (1°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

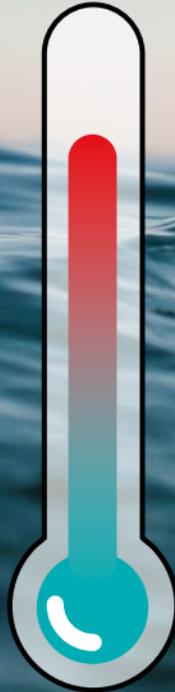


16



Glaciers are found in mountains like the Rocky Mountains, the Himalaya or in Alaska, 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.

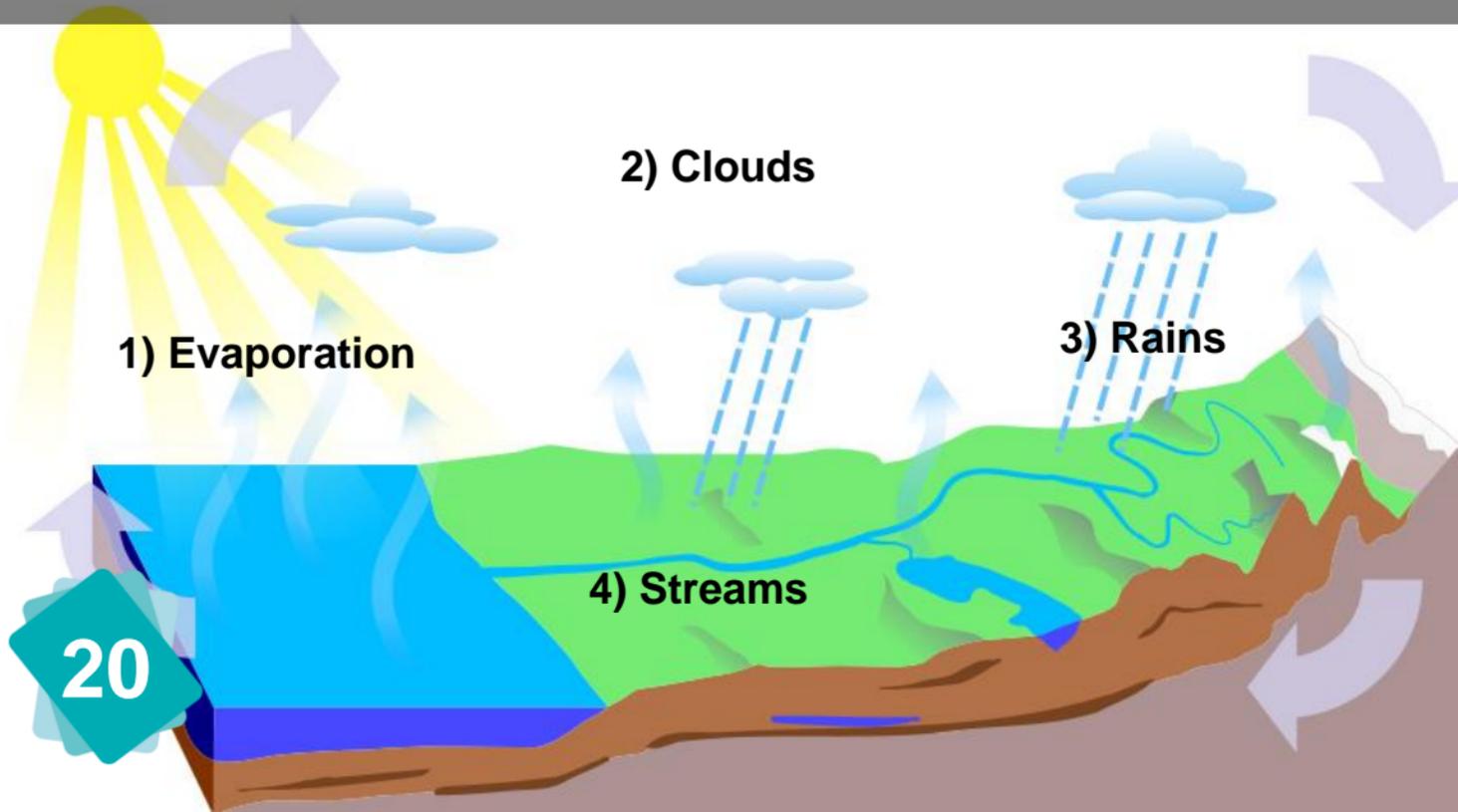
Warming of Oceans





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



36



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

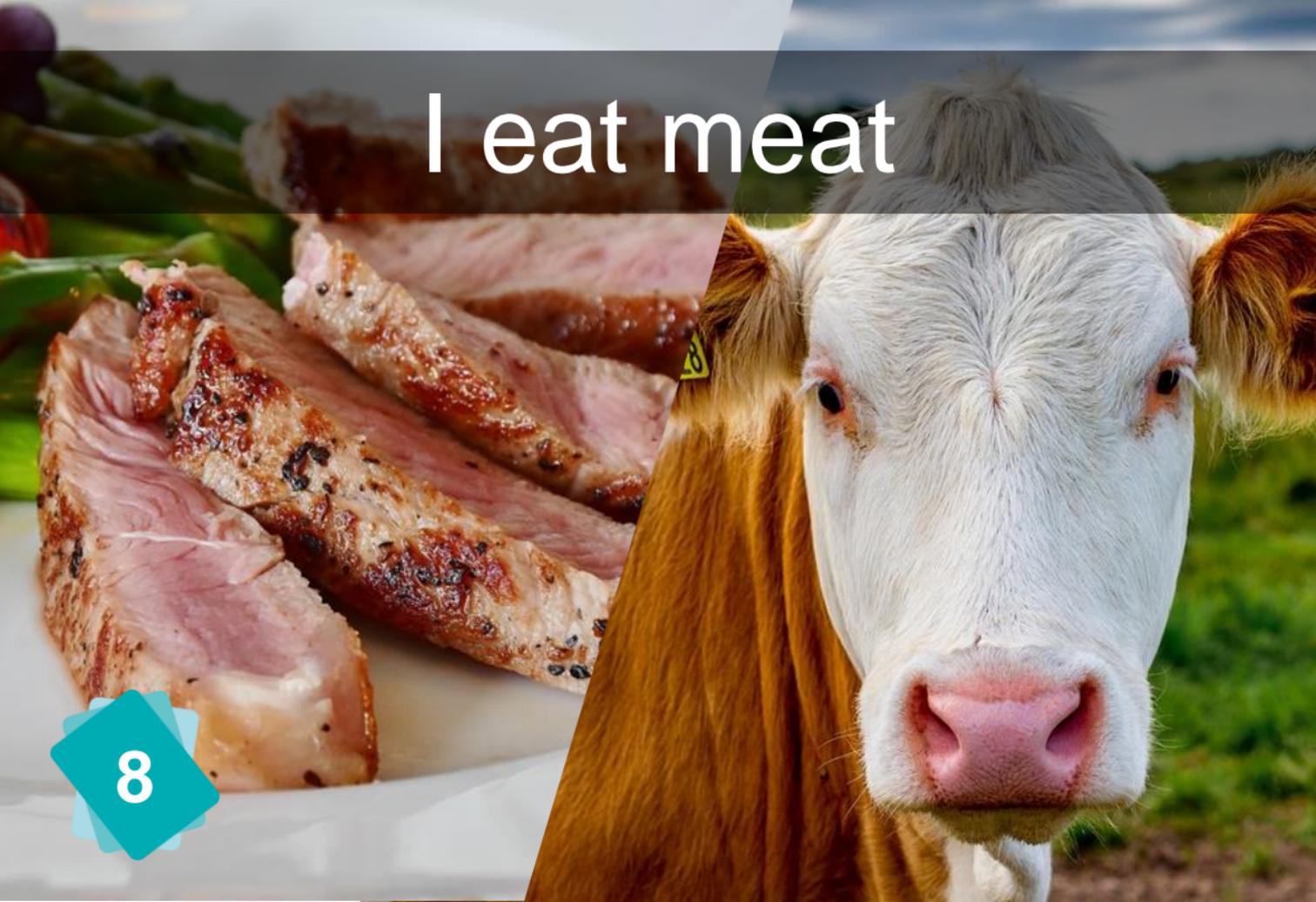
2



Everything we buy comes from the industry that emits a lot of Carbon Dioxide (CO_2). CO_2 is a greenhouse gas (GHG).

I eat meat

8





Cows are ruminants. They release methane when they fart 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



22



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



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

Coastal flooding



33



A coastal flooding 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.

Hurricanes

A satellite image of a hurricane, showing a well-defined eye and a dense, swirling cloud structure over the ocean. The eye is a dark, circular center, surrounded by a thick ring of clouds. The outer clouds spiral outwards in a clockwise direction, creating a textured, layered appearance. The surrounding ocean is visible as a dark blue area at the bottom left of the frame.

34

A teal-colored diamond-shaped graphic with a white number '34' inside. The diamond has a slight shadow and is positioned in the bottom left corner of the slide.



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

Famines





If we produce less food,
famines can happen.

Climate Refugees

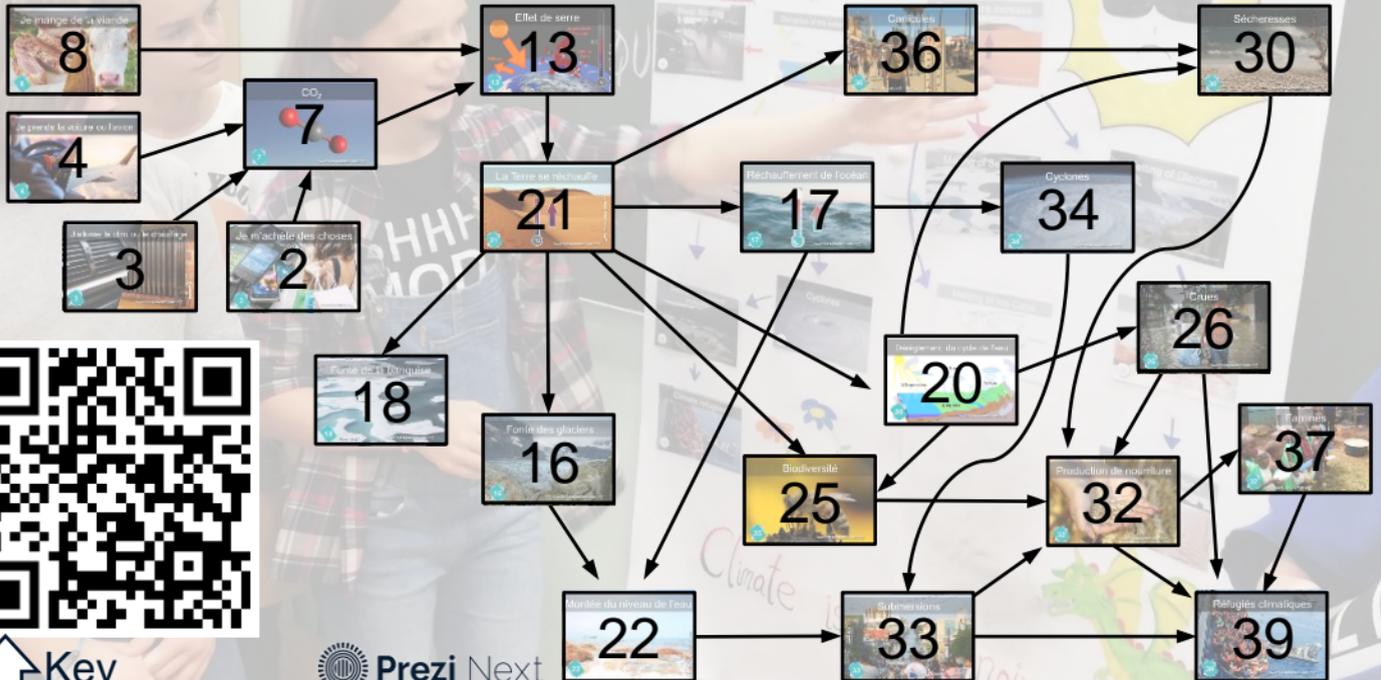
An aerial view of a large, crowded boat filled with people wearing orange life jackets. A smaller inflatable boat with two crew members in white uniforms is positioned nearby, with a rope extending from the larger boat to it. The scene is set on a deep blue sea.



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

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English



Scan to join us !