Memory cards



Goal

Facilitate ākonga's learning of scientific vocabulary related to greenhouse gases, while fostering their creativity and curiosity. By engaging in this activity, ākonga will have the possibility to create their own game set and will not only become familiar with scientific terminology but also develop critical thinking skills as they conceptualise matching pairs.

Proposed activity

Materials:

- Cards
- Whiteboard Pens

Instructions:

- Give the ākonga the set of cards.
- Shuffle the cards and place them upside down.
- Ākonga find the matching pairs. [Hint: matching cards have the exact same image].
- After they match all the pairs, ākonga can use the blank cards and whiteboard pens to propose their own matching pairs and play it again.
- At the end of the activity, each ropū (group) can choose one or two pairs of cards and share their learning with the whole class.
- Kaiako can guide a discussion by asking why and how ākonga proposed the new matching pairs. Always trying to encourage them to have an optimistic view of the future.

Printing instructions:

If you want to print additional cards, we recommend the following printing settings:

- Size: A4
- Full page slides (if asked)
- Colour (suitable for printing B&W)
- Print both sides

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Memory cards - Key for teachers



Image	Pairs	
	I am called	CARBON DIOXIDE. I am made of 1 carbon atom and 2 oxygen atoms.
NNO	I am called	NITROUS OXIDE. I am made of 2 nitrogen atoms and 1 oxygen atom.
н	I am called	METHANE. I am made of 1 carbon atom and 4 hydrogen atoms.
	I am called	WATER. I am made of 2 hydrogen atoms and 1 oxygen atom. Water vapor is a greenhouse gas!
000	I am called	OZONE. I am made of 3 oxygen atoms. I protect the Earth against UV radiation (in the stratosphere).
F-	We are a group of gases called	FLUORINATED GASES. We are powerful greenhouse gases, but usually not released as much as other greenhouse gases.
	We are called	GREENHOUSE GASES, or GHGs. We absorb radiation and this helps to trap heat in the atmosphere.
	"EVs" stand for	ELECTRIC VEHICLES. They emit much fewer greenhouse gases than petrol vehicles.
	One source of greenhouse gases is	A FOSSIL FUEL VEHICLE. It releases carbon dioxide and other air pollutants.
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Memory cards - Key for teachers



Image	Pairs	
**	Plants take in carbon dioxide through	PHOTOSYNTHESIS during the day. Both during day and night they also respire, releasing carbon dioxide!
<u>ے</u>	Thingslike	WIND AND TEMPERATURE, can change how much greenhouse gases are in the air.
	When the wind is calm	molecules can keep close together, temporarily increasing the atmospheric CONCENTRATION.
	Low temperatures can	keep molecules close to each other, temporarily increasing the atmospheric CONCENTRATION.
	When the wind is strong	molecules are spread out far from each other, temporarily lowering the atmospheric CONCENTRATION.
	High air temperature	keep molecules far from each other, temporarily lowering the atmospheric CONCENTRATION.
	Scientists use instruments to measure	how much gases, like carbon dioxide and other greenhouse gases, are in the air. This is called the ATMOSPHERIC CONCENTRATION.
	Fossil fuel vehicles and landfill release greenhouse gases	EMISSIONS, which contribute to global warming.
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Atmospheric CONCENTRATION is	how CLOSE TOGETHER or how SPREAD OUT molecules (gases) are in the air.
	EMISSIONS are	THINGS THAT GO INTO THE AIR, like smoke or gases, often coming from cars, factories, or other sources.

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