

Teacher guide



THE ACTIVITY

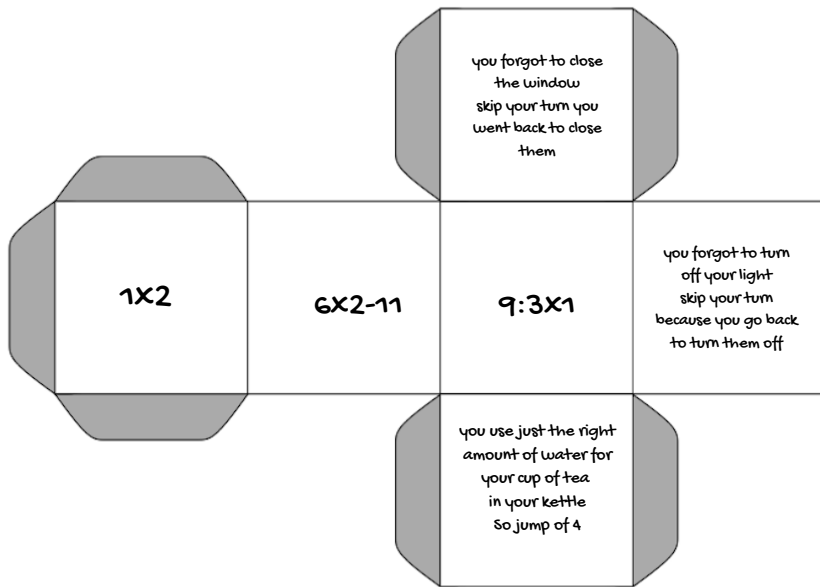
- 1) Give each team facts/acts sheets
 - 2) Reflect and discuss together facts and acts on sustainability and climate change. Can the teams think of more facts or acts?
 - 3) Give each team one board, one cube, and the instructions.
 - 4) Each team will work together to design their board
 - 5) Each team designs the cube (from 1 to 3 + 3 events)
 - 6) Each team then plays the game they designed.
- Extension: games can be swapped among teams.

CLASS MANAGEMENT

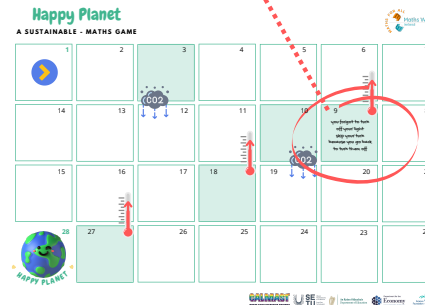
Organise your class in small groups (max 5 students per group). Allow the group to work together on one game. We suggest creating big desks and having the students around so they can face each other.

DESIGN THE GAME

Students can choose what to write in the green tiles and on the cubes /dice faces. They can choose between simple maths quiz or events related to climate change facts/acts. What you can see in the image below is just an example. Let students create their OWN version of both the cube and the board. Remember: If the temperature increases ("snakes") the player will lose places. If CO2 emissions decrease ("ladders") the player will advance faster.



9
you forgot to turn
off your light
skip your turn
because you go back
to turn them off



We want to hear from you

We want to hear from you. Your expertise will be very helpful to us. Tell us by email if your students enjoyed the activity and if there is anything we can improve.

EMAIL: calmast.wd@setu.ie

Happy Planet

A SUSTAINABLE MATHS GAME

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Maths Week Ireland is an all-Island festival that promotes positive attitudes toward maths for all. It is the leading festival of its kind in the world. Events and activities take place across the island every October. There are events for all ages and abilities, including pre-school, school, families, and adults.

Why Maths?

Maths is for everyone. It is very important in our lives and we all use maths every day, from counting our change to looking at bus and train timetables, and a whole lot more! Maths Week is all about promoting a positive attitude towards maths, helping everyone to succeed. We are not hardwired at birth to be mathematical or non-mathematical. Like a sport, if we apply ourselves we will get better. And if we enjoy something, it is easier to apply ourselves. This game helps practice numeracy and promotes climate action in a fun way. We hope you enjoy this game, to find more activities and more information check out www.mathsweek.ie



Calmast is the STEM Engagement Centre at South East Technological University. It acts as a hub for STEM clusters across the South East region. These clusters comprise industry, local authorities, libraries, local organisations and schools and work in partnership with Calmast to provide STEM engagement locally.

Sustainability and climate action are priorities for humanity and STEM is key to understanding the issues and developing solutions. Creativity, problem-solving and critical thinking are vital life skills that Calmast promotes through these activities. Maths is really important in tackling climate change.



An Roinn Oideachais
Department of Education

