

TRAPPED IN THE HOUSE!



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INSTRUCTIONS FOR THE GAME

What is included in the toolbox?

- Instructions sheet
- Directions sheet
- Materials checklist
- Scenario sheet
- 8 puzzles
- 8 answer keys
- 8 explanation sheets (hints)
- Game visuals
- Reward certificate
- Tips to include youngsters with SLDs
- Tips to remember (after completing the game)

Learning objectives

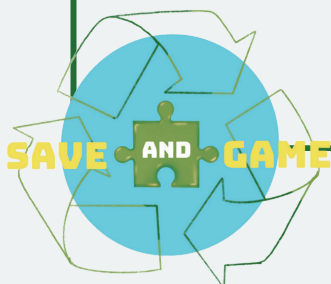
Reduction of domestic energy and water consumption

Sustainable purchases

The 3 Rs: reduce, reuse, recycle,

Trained skills

- Teamwork
- Time management
- Recycling
- etc



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INSTRUCTIONS FOR THE GAME

Puzzle types



Manipulation-type
puzzles



Observation-type
puzzles



Decoding-type
puzzles



Logic-type
puzzles

Level of difficulty

Intermediate



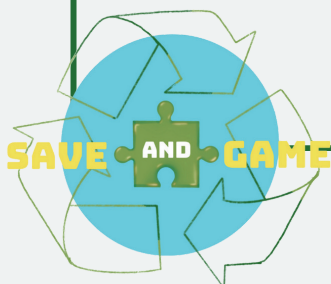
Duration of the game

1 hour



Number of players

4



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DIRECTIONS FOR THE GAME MASTER

1. Print the game document and read its content.

Where indicated, cut the materials needed for the game.

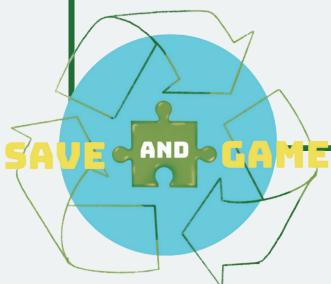
2. Get the necessary material for the game (padlocks, boxes, etc)

3. Prepare the material according to the instructions

4. Print the visual material

5. Set up the room

6. Welcome the players and give them the introductory speech



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MATERIALS CHECKLIST

The locked box

1 box

1 4-digit padlock

Functional

Visuals to print

The mountain of waste

Different types of waste

1 glass bottle with a narrow opening

Visuals to print

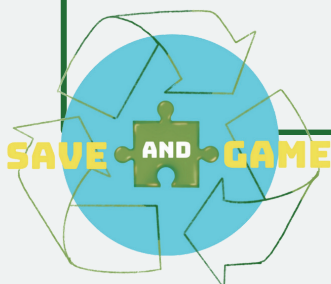
Little drops

Tap filter with numbers written on it

UV lamp

Functional

Visuals to print



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MATERIALS CHECKLIST

The hidden message

1 box

1 3-digit padlock

Functional

1 chain

Visuals to print

Red alert

5 electronic appliances in standby mode Functional

5 post-its

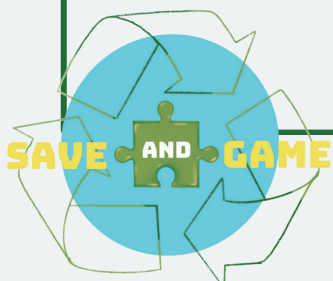
Visuals to print

The hot canvases

6 canvases

4 coloured nails (blue - green - red - pink)

Visuals to print



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MATERIALS CHECKLIST

The talking t-shirts

4 t-shirts (blue - green - red - pink)

1 drying rack

Visuals to print

Leonardo's padlock

Cryptex

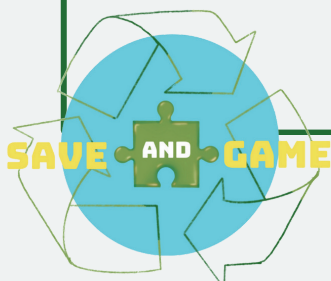
Functional

6 packagings from local food products

5 packagings from foreign food products

Visuals to print

Calendar on the wall



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SCENARIO N°1

Trapped in the house!

Background story

Your neighbor is the famous actor Eric Rowen. He recently starred in a spot about environmental advocacy. Because of his fresh-faced, he always plays roles in which he is a principled man, but in reality he is a very strange subject! He is always obnoxious and grumpy, hardly ever says hello, and seems to have no friends. Yet strange, you always see him coming home full of grocery bags, his house is always lit up, you often hear noises, coming from his house....

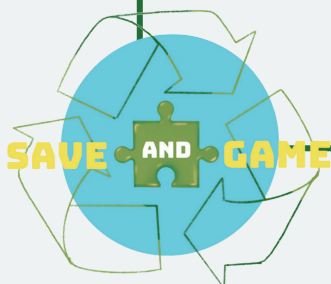
A couple of weeks ago, he had gone away for a few days full of suitcases. You thought he wanted to renovate his house since workers came.

You just saw him park his SUV; he is now returning home. You would like to greet him, but as usual, he doesn't even look at you.... You return home, but a few moments later, you hear a startled scream and a thud! Something must have happened to him!

You can't pretend that nothing has happened and head toward his house. He doesn't answer, but the door is left open. You find him unconscious on the floor and his foot caught on the door! He has fainted!

You try to rescue him and accompany him to the couch. As he tries to recover, being stunned, you see that he has a note in his hand

“Dear Eric, you are an awful example; it is a scandal to make someone like you a role model! For once in your life, do what is right; let's see if you can do it! Your house will be your trap if within 1 hour you cannot minimize your footprint....”



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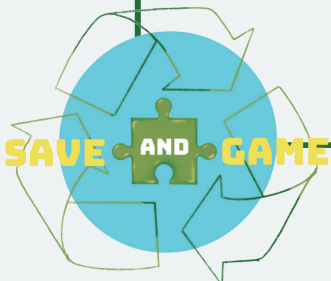
The Mission

Then you hear the door close and notice a big timer projected on the ceiling that has already started running. You feel your blood run cold!

Someone decided to play a good joke on Eric. Too bad you got caught up in it too!

Eric keeps rambling; he must have hit his head falling. You have no idea what might happen at the stroke of the hour!

Therefore there is only one thing left: hurry in his place to optimize everything inside his house! There is no time to waste...



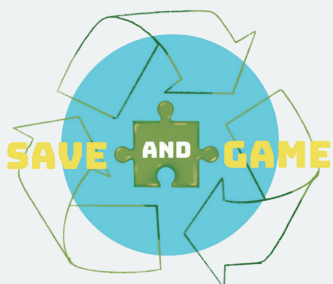
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PUZZLE N°1

The locked box

You start to look around; Eric's house is awkward in how cluttered and chaotic it is, full of useless objects, clothes left everywhere, and trash piled up. As the clock keeps ticking, you notice a locked box above the table with a message:

“You feel lost, don't you? You don't know where to start! Here is the key to getting out of the house. Remember: small actions save the planet. You have to start doing at least 8 in an hour to save yourself. Here is a hint: you can start with what you intended to do at the end...”

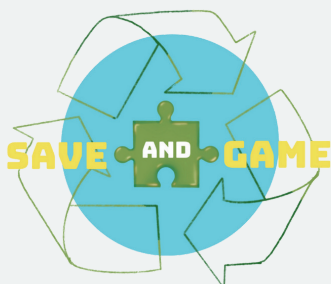


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PUZZLE N°1

The locked box - Solution

To open the box and find the key to open the house door, subsequent puzzles must be solved. In fact, it is only discovered at the end that the code to open the box is represented by the 2023 Earth Overshoot Day.



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PUZZLE N°1

The locked box - Hints

Hint n°1: Your 8 good actions are essential to save you.

Find the day, month and year and combine them as suggested. Remember: dd/mm.

Given to the players

YES

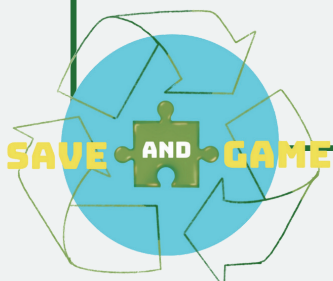
NO

Hint n°2: You should remember the 3 R's: Reduce,
Recycle, Reuse

Given to the players

YES

NO



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PUZZLE N.2

The mountain of waste

The puzzle refers to Eric's waste. In fact, there is a small mountain of undifferentiated waste piled in the corner of the room.

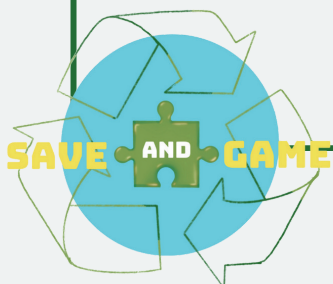
There is a post-it where it is written:

“The greatest threat to our planet is the belief that someone else will save it (R. Swan).

Correct your mistake to continue in the right direction.”

Among the waste, there are also:

- 1) a glass bottle with a not-too-wide opening containing torn sheets of paper (they are provided in the material to be printed)
- 2) some wooden chopsticks which can help to remove the pieces of paper from the glass bottle
- 3) a faucet filter with 4 3-digit numbers written on it. One of these numbers is 578.



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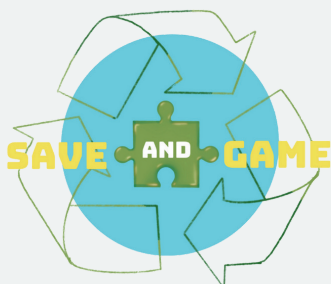
PUZZLE N°2

The mountain of waste - Solution

Players must separate waste by separating paper, plastic and glass. At the bottom of the mountain of waste they find a glass bottle with pieces of paper inside.

The two materials must be differentiated! Using wooden chopsticks this is pretty easy! They will discover that in the fragments of paper there is a sentence to compose:

“One of these objects is precious for reducing big waste. The arrow will tell you the right number to... enlighten you!”



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The mountain of waste - Hints

Hint n°1: It looks like one can be worth two.

Given to the players

YES

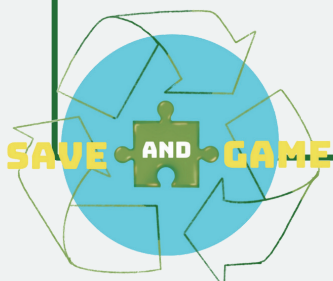
NO

Hint n°2: Maybe not everything goes to waste! Some of the discarded items can still be used!

Given to the players

YES

NO



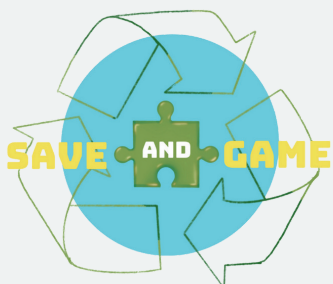
PUZZLE N.3

Little drops

On the tap you will find:

1) a post-it with the message: “Small drops make the big ocean (J.Carney). Start limiting what you waste every day. You will reduce your water consumption by up to 70% and the future of the earth will be better... brighter!”

2) a arrow



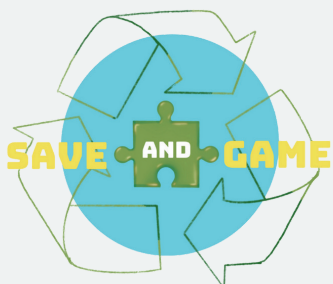
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PUZZLE N°3

Little drops - Solution

Players have to put the filter on the tap. After applying the filter, it turns out that the combination is 578. It is the number towards which the arrow is pointing.

578 is the code that opens the 3-digit padlock that closes a plastic container hanging from the lamp. The word “brighter” is in fact a clue that leads players to the lamp.



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PUZZLE N°3

Little drops - Hints

Hint n°1: By using this item you will reduce water consumption. Apply it correctly and everything will appear clearly to you!

Given to the players

YES

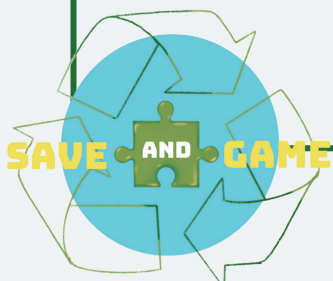
NO

Hint n°2: Use what you get on what it takes to illuminate!

Given to the players

YES

NO



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PUZZLE N.4

The hidden message

Inside the box there is:

- 1) a LED bulb
- 2) a note that seems unwritten
- 3) a UV flashlight
- 4) a post-it with a message

The message explains: “No profit is as sure as saving what you have (P. Siro). Now you don't read, but everything is already written!”



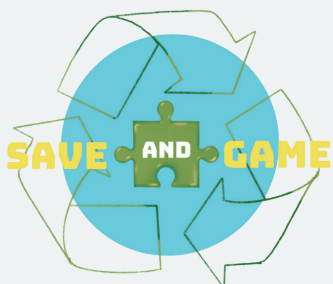
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PUZZLE N°4

The hidden message - Solution

The pen is a UV pen and also has the light needed to decrypt messages written with it.

Using the UV light on the outside of the lamp, a message appears: “Turn off the red!”



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PUZZLE N°4

The hidden message - Hints

Hint n°1: The light you need is not that of the bulb

Given to the players

YES

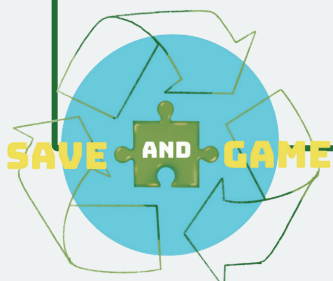
NO

Hint n°2: UV light will make it valuable if it seems unnecessary

Given to the players

YES

NO



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PUZZLE N.5

Red alert

There are 5 devices switched on in stand by mode, and for this reason have the “red light” on. On each there is a post it:

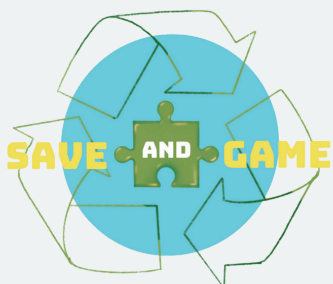
1 - R

2 - O

3 - RA

4 - DI

5 - AT



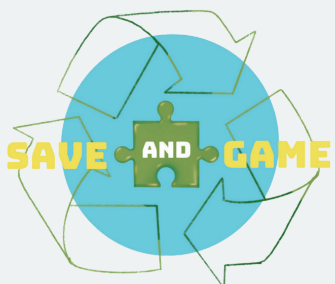
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PUZZLE N°5

Red alert - Solution

Players should notice that the devices are in standby mode (red light). They then have to turn them all off.

By putting the syllables they collect from the devices in the right order, they get the word “RADIATOR”.



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PUZZLE N°5

Red Alert - Hints

Hint n°1: Red stands for on, though it doesn't look like it!

Given to the players

YES

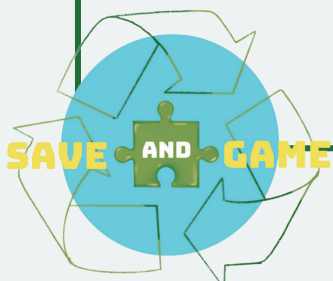
NO

Hint n°2: Turn off everything red! Then discover the message that the devices together send you

Given to the players

YES

NO



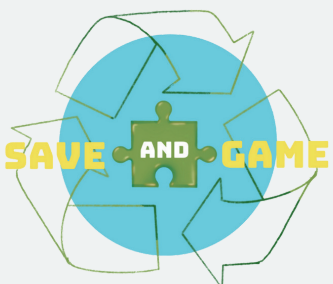
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PUZZLE N.6

The hot canvases

The previous puzzle allows you to collect the letters that make up the word “radiator”. In front of the radiator are some canvases of different sizes and shapes.

On a post-it, they can read: “What's the use of owning a nice house if you don't have a decent planet to put it on? (H. D. Thorea). Find the right place for art, otherwise all you will do is heat... your bill!”



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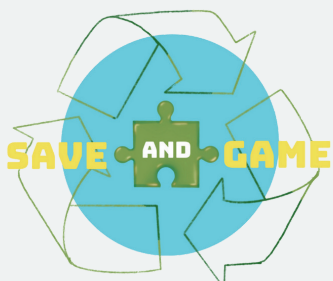
PUZZLE N°6

The hot canvases - Solution

There will be coloured nails on the wall to hang the canvases. By placing the canvases in the correct order, a sequence of colours will appear: Blue - Green - Red - Pink.

These are the colours of the t-shirts hung awkwardly on the clothesline.

Players will have to figure out that the next puzzle is related to the t-shirts, since they are the same colour.



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PUZZLE N°6

The hot canvases - Hints

Hint n°1: You don't have to follow the numbers but the order... the wall has memory!

Given to the players

YES

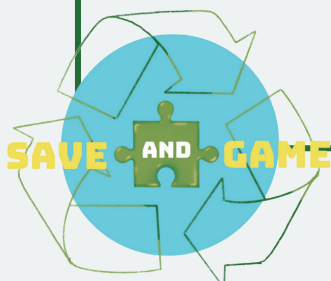
NO

Hint n°2: It seems that these colours are what the owner likes to wear...

Given to the players

YES

NO



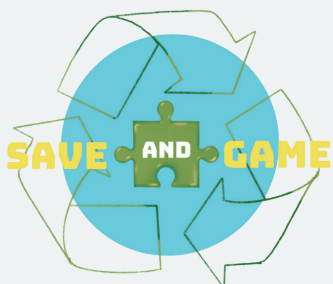
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PUZZLE N.7

The talking t-shirts

On the clothesline, there is the next message:

“You should not start saving money by decreasing the amount of common sense (S. J. Lec). You can reduce time and money if you stretch your clothes rather than ironing them! Do it now, only after you find out the sequence!”



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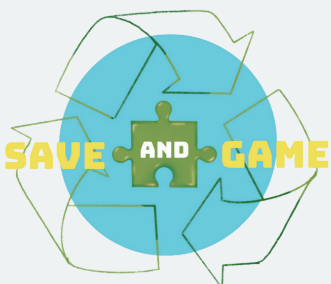
PUZZLE N°7

The talking t-shirts - Solution

The T-shirts hung awkwardly on the clothesline should be placed in the colour order corresponding to that of the nails behind the canvases (Blue - Green - Red - Pink).

The 4 t-shirts placed in the right order make up the word "SAVE" and the code "2449".

This number can be used to open the lock that opens the pantry in the kitchen.



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PUZZLE N°7

The talking t-shirts - Hints

Hint n°1: The sequence you found, use it elsewhere!

Given to the players

YES

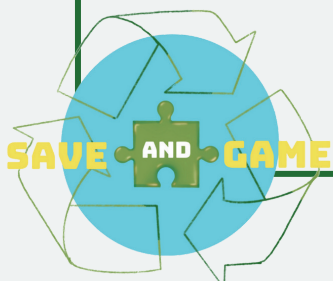
NO

Hint n°2: There is a letter for each t-shirt... there are 4
to use together where needed

Given to the players

YES

NO



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PUZZLE N°8

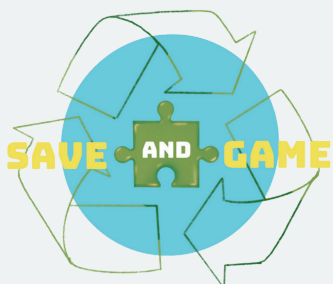
Leonardo's Padlock

Inside the pantry are:

1) a series of products, some of which come from abroad;

2) a post-it that reads: “Buy less. Choose well. Make it last (V. Westwood)... They will reveal Leonardo's secrets to you if they haven't gone too far! But you have to combine them in the right order.”

3) a cryptex puzzle, which opens with a combination of 6 letters



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PUZZLE N°8

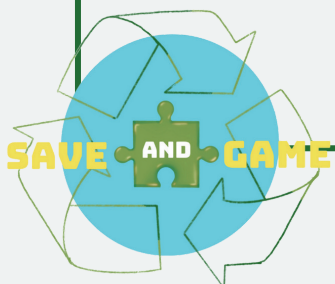
Leonardo's Padlock - Solution

The letters that are glued on the 6 local products, anagrammed, form the word REDUCE: this is how Leonardo's lock opens.

Inside, there is the message: "Use the date of Earth over-shoot day 2023." Consulting the calendar hanging on the wall, the players discover that the date is August 2nd, therefore 0208. This combination opens the box on the table and allows them to end the game!

In the box, there is a final message: "Remember: "Take care of the Earth and the Earth will take care of you; destroy the Earth and the Earth will destroy you" (Aboriginal proverb)".

As a reward for the players' efforts, you could also give them seeds to grow new plants, with a message encouraging them to become promoters of green skills in their cities!



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PUZZLE N°8

Leonardo's Padlock - Hints

Hint n°1: If they're local, they haven't come from very far...

Given to the players

YES

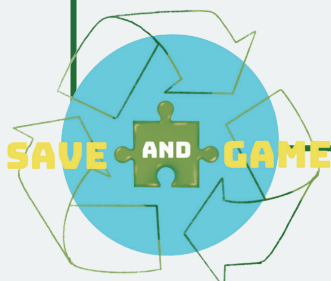
NO

Hint n°2: The anagram forms one of the 3 Rs..

Given to the players

YES

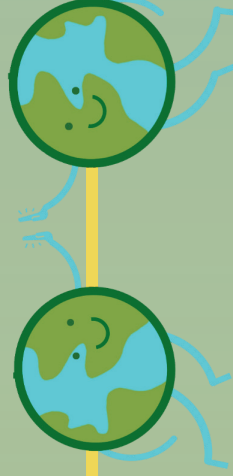
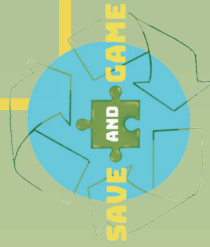
NO



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REWARD CERTIFICATE

**YOU HAVE SUCCESSFULLY
COMPLETED THE MISSION!
YOU HAVE HELPED REDUCE
CONSUMPTION IN THIS HOUSE, AND
NOW YOU ALSO KNOW HOW TO
REDUCE IT IN YOUR OWN HOME!
THE SEEDS YOU HAVE FOUND CAN
BE PLANTED TO HELP MAKE YOUR
CITY GREENER!**



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Tips to remember



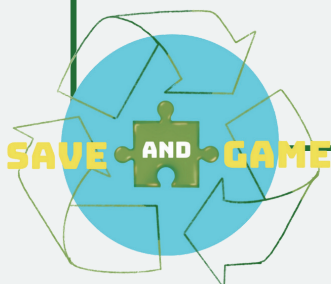
Turn off the TV, all devices and appliances completely. Standby mode keeps the device on constantly, waiting for the user to need it. It's fine to reach out and turn on the device with the push of a button on the remote, but it's not an efficient way. The solution is to connect appliances to a power strip with a power button. For example, when you don't use the TV for a while, turn off the power strip and prevent standby mode from consuming energy.



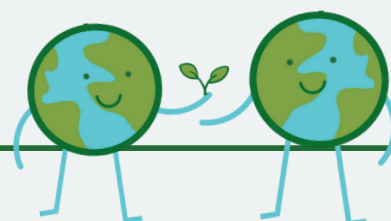
Do not cover radiators: any type of shielding prevents the heat transmitted by the radiator from spreading into the room, which will heat up more slowly, wasting energy.



Let's question the iron: is it indispensable?
The answer is no! In Colombia, a campaign has just started for the social acceptance of wrinkled garments. To avoid too many creases, you can pay more attention to the hanging phase and the fabrics of the clothes you buy.



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Tips to remember



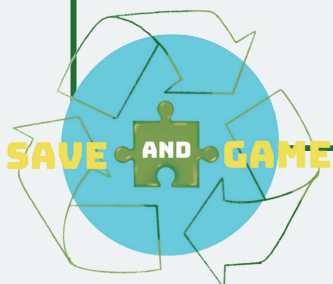
Among the FAO's 12 recommendations for sustainable eating is to favor local (and seasonal) produce. A responsible choice for a greener lifestyle.



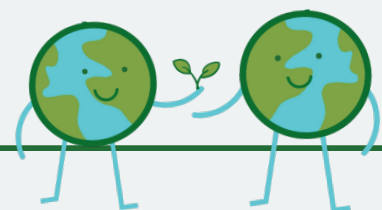
According to some estimates, the refrigerator can impact up to 20% of the energy bill, effectively shaping up as one of the most energy-consuming household appliances. Check the temperature: it should be 4°C! Do not overload the refrigerator shelves, and keep products away from the walls to allow adequate cold air circulation.



Home lighting accounts for about 15 percent of a home's electricity consumption. Therefore, making an environmentally conscious purchase helps reduce costs. Translated into percentages, the energy savings from using LED bulbs are close to 95 percent when compared to incandescent bulbs, 85 percent when compared to halogen bulbs, and 60 percent when compared to fluorescent bulbs (acea.it)

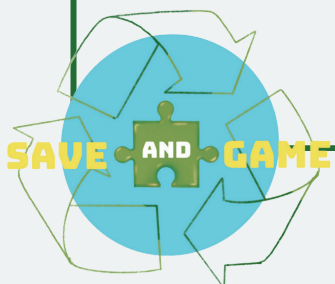
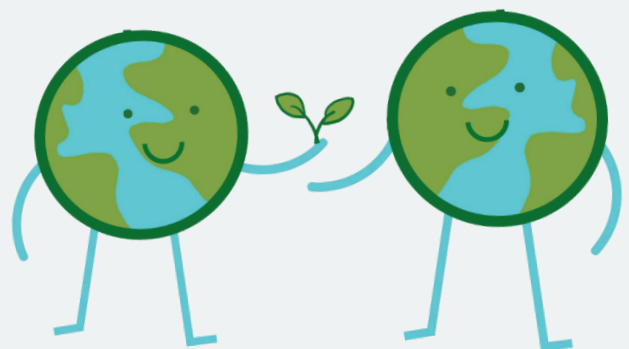


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TIPS FOR SLDs INCLUSION

- Make sure that everyone understood the instructions. Repeat them if necessary.
- Make sure that there is enough space to move around in the room.
- Use clear language
- If possible, print the material on off-white paper.
- Encourage cooperation between the players.



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