



Home learning

We will learn...

- To create an Urban Garden reusing materials.
- To apply our Natural Science and Numeracy knowledge for our project.
- Actions to increase sustainability, the 3 Rs of waste: recycle, reduce and reuse.
- ...while working hands-on and training our creativity in solving problems during the creation process.

Connections

Related ideas that we need to know before we start.

Did you know?

Climate change is an alteration of the mean of global temperatures and weather pattern as a result of the **green house effect** increased by human activity.

Sustainability: avoidance of the reduction of natural resources to maintain an ecological balance.

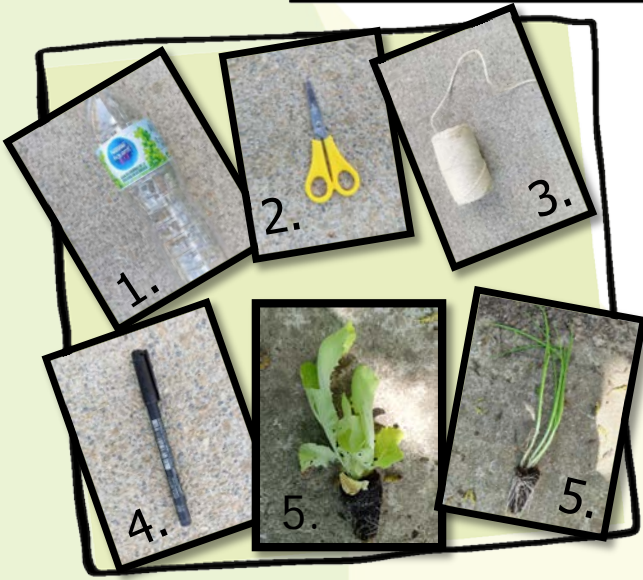
Which things can we do to boost sustainability? And to decrease the climate change?

This Capsule you are about to start was designed to contribute to **food self-sufficiency**. Keep reading to find out more!



Get ready!

Grab all the required materials and tools to start.

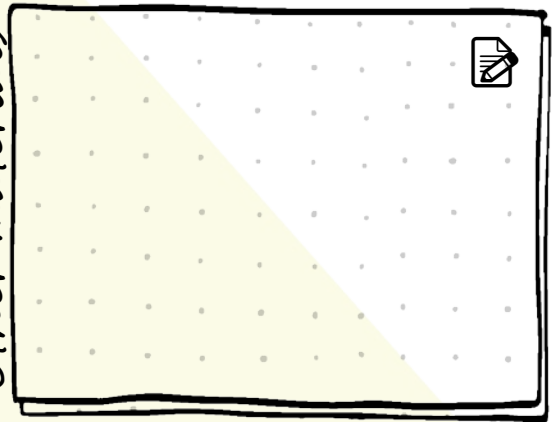


Materials

- 1. Plastic bottle (1'5l)
- 2. Scissors
- 3. Thick string
- 4. Marker
- 5. Small lettuce or green onions
- 5. Soil

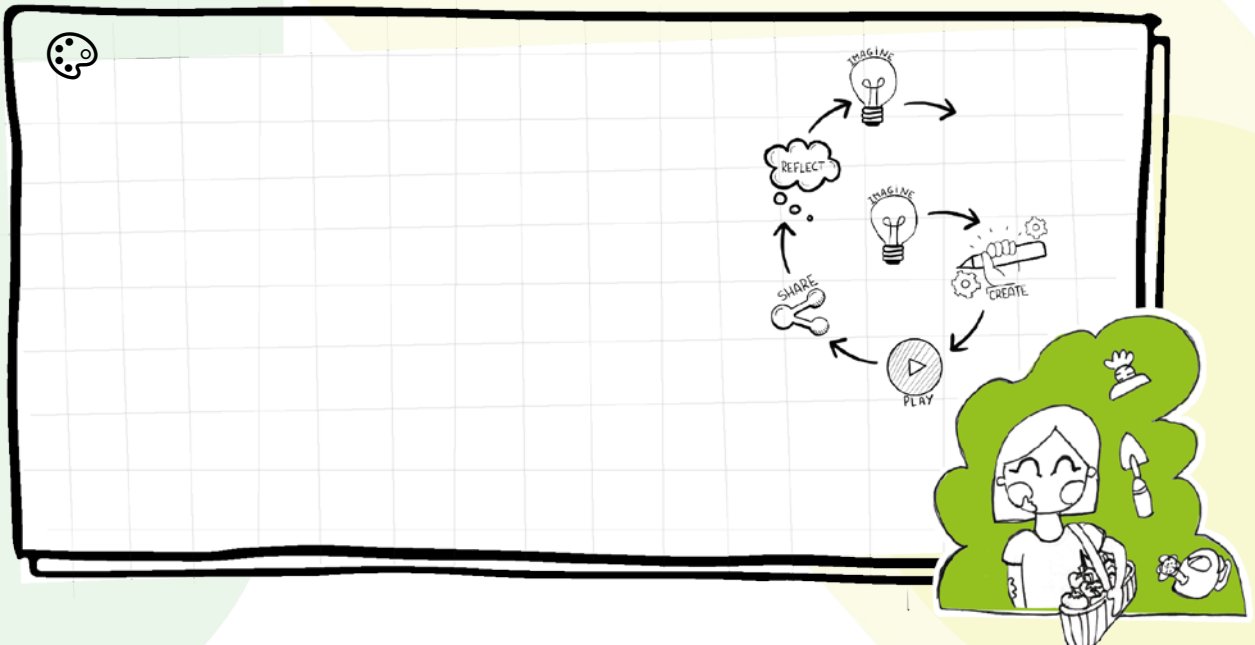
Are you missing a material?
For which one could you replace it?
Will you use others to decorate?
Write them down.

Other materials



Imagine

How do you imagine a Urban Garden with these materials? Draw it.



Let's create!

Follow the instructions and ask for an adult supervision when necessary.

Scan the QR code to follow the step-by-step video.



1. Using a marker and a ruler, draw two rectangles (7cm x 4cm) with a separation of 5cm between them on the plastic bottle. Then, cut them out.

2. Make 5 or 6 holes on the opposite side of the bottle. Just below the two rectangles. These holes will serve as a drain system when you water your veggies.



3. Pierce one hole at each bottle extreme (x) aligned with the two rectangles. Subsequently, pass a string through both holes and knot its ends.



4. Fill the plastic bottle with soil.

How much soil will you need for a 1,5 l bottle?

Next, dig a hole in the soil in each open space with your fingers.



5. Inside one of the holes, plant the lettuce. Once you have introduced it, cover its roots and press the soil around it to fix it.

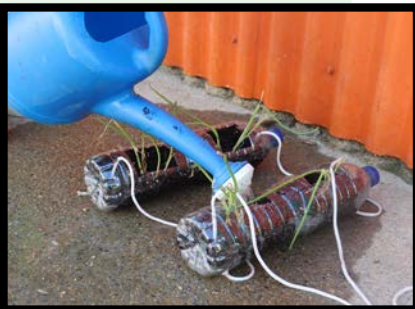


6. Repeat the same process in the other hole seeding another veggie. For instance, green onions.



7. Finally, water your urban garden! Once its finished...

How should be the place where you hang it?



Let's create!

Get a digital device with internet access and follow the instructions.

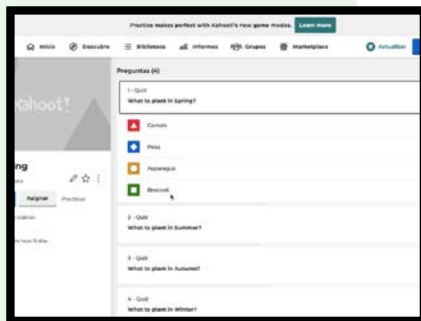
1. Now that you have an urban garden, **do you know what to grow each season? Who can you ask or where can you find this information?**



2. After a little research, write the answers to the previous questions in a paper and **think new inquiries** related to the topic and look for their responses.

3. Switch on your digital device, look for *Kahoot!* in your web browser and *sign up* to create your student account or *log in* if you already have one. Scan the QR code for a quick access.

<https://kahoot.com>



4. Create a multichoice Quiz: Type your questions and four possible answers. Then, tick the correct ones. **Do you know other platforms to create Quizzes?**



Play and share

Draw or take a picture of your urban garden.

Press *start* to generate the PIN that the players need to participate in your Quiz.

I played with my Quiz with _____



Reflect

Choose one of the following questions and develop its answer.

1. What is the difference between recycling and reusing materials? What are their benefits?
2. How do you see numeracy and natural science knowledge linked to the veggie garden?
3. What was your most relevant learning during the creation process of this urban garden?

How many stars will you give to your critical thinking? Colour them!





School Workshop



Imagine

How do you imagine a Urban Garden with these materials? Draw it.

Reflect

Choose one of the following questions and develop its answer.

1. What is the difference between recycling and reusing materials? What are their benefits?
2. How do you see numeracy and natural science knowledge linked to the veggie garden?
3. What was your most relevant learning during the creation process of your product?

How many stars will you give to your critical thinking? Colour them!

