

BRILLIANT LABS

Natural Maker

Winter Challenge



Financed by/ Financé par :



CHALLENGE #1

DETECTIVE

WHERE CAN YOU FIND CLUES TO IDENTIFY YOUR TREE TYPE?

BARK

Each type of tree has a bark that resembles it. Draw or trace the bark of your tree.

CONIFER OR HARDWOOD
Thorns Leaves

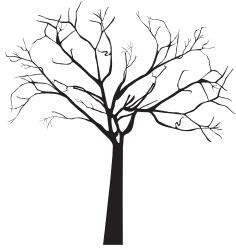


Shape and number of thorns in a group:

Shape of the leaves:

DID YOU KNOW

To tell the difference between fir and spruce, twist a thorn between your fingers... If it rolls, it is a spruce because fir thorns are flat.



ECOCITIZENSHIP

ADOPT A TREE

Enjoy a walk on the trails or in the city to observe the trees. Choose the one you would like to visit regularly. Draw all the details you notice about it, come back and draw a portrait of the transformation of your tree along the seasons.

WINTER

SPRING

SUMMER

FALL

LEARN ALL ABOUT YOUR TREE AND SHARE YOUR NEW DISCOVERIES WITH YOUR FRIENDS AND FAMILY.

CHALLENGE #2

ECOLOGICAL AWARENESS

WHAT ARE THE MATERIALS TO PRIORITIZE WHEN CREATING IN NATURE?

NATURAL ELEMENTS :

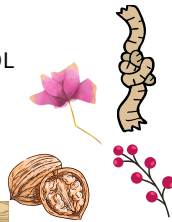
- CONIFERS CONES
- DEAD LEAVES
- DEAD BRANCHES
- BARK ON THE GROUND
- ROCKS AND CLAY
- SNOW AND ICE



Make sure you don't take anything alive and don't take everything in order to respect the biodiversity present.

HOUSHOLD BIODEGRADABLE MATERIALS :

- NATURAL ROPE OR WOOL
- WITHERED FLOWERS
- FRUITS OR PEELINGS
- NUTS AND SEEDS
- WOOD



AVOID :

- PLASTIC (INCLUDING GLITTER AND BEADS)
- GLUE AND PAINT
- METAL FASTENERS

IN FACT, ANYTHING THAT CAN BECOME A RISK TO ANIMALS.



GREEN ARTIST

DECORATE YOUR TREE

Make eco-responsible decorations. Brighten up the neighborhood's day and take advantage of it to make the biodiversity that adopts your tree as a habitat happy. You will find ideas at the bottom of this page or be 100% creative.

MATERIALS AND TOOLS I NEED:

Lined area for listing materials and tools needed.

MY PLAN

ICE SUNCATCHERS

Material:

- water
- natural objects (anything biodegradable and/or edible)
- molds (cake or muffins mold, bowls, reused containers)
- rope or wool (avoid plastic ruban)
- scissors



- 1- PLACE THE NATURAL ELEMENTS IN THE MOLD AND POUR WATER.
- 2- ADD A SMALL PIECE OF ROPE TO CREATE A RING THAT WILL BE USED TO HANG YOUR SUNCATCHER ON A TREE BRANCH.
- 3- LEAVE YOUR CREATION IN THE FREEZER OR OUTSIDE TO FREEZE (ONE NIGHT SHOULD BE ENOUGH).
- 4- PROUDLY DECORATE YOUR TREE. IF YOU HAVE USED SMALL FRUITS, SEEDS OR NUTS, YOU WILL CERTAINLY MAKE SMALL CREATURES HAPPY AT THE SAME TIME.

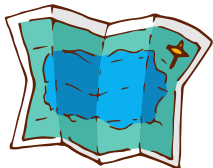
VARIATIONS: COLOR YOUR WATER WITH NATURAL DYES AND MAKE A MOSAIC.

CHALLENGE #3

FIND YOUR SITTING SPOT

YOUR SITTING SPOT IS THE PLACE IN NATURE WHERE IT FEELS GOOD TO SIT AND STOP.

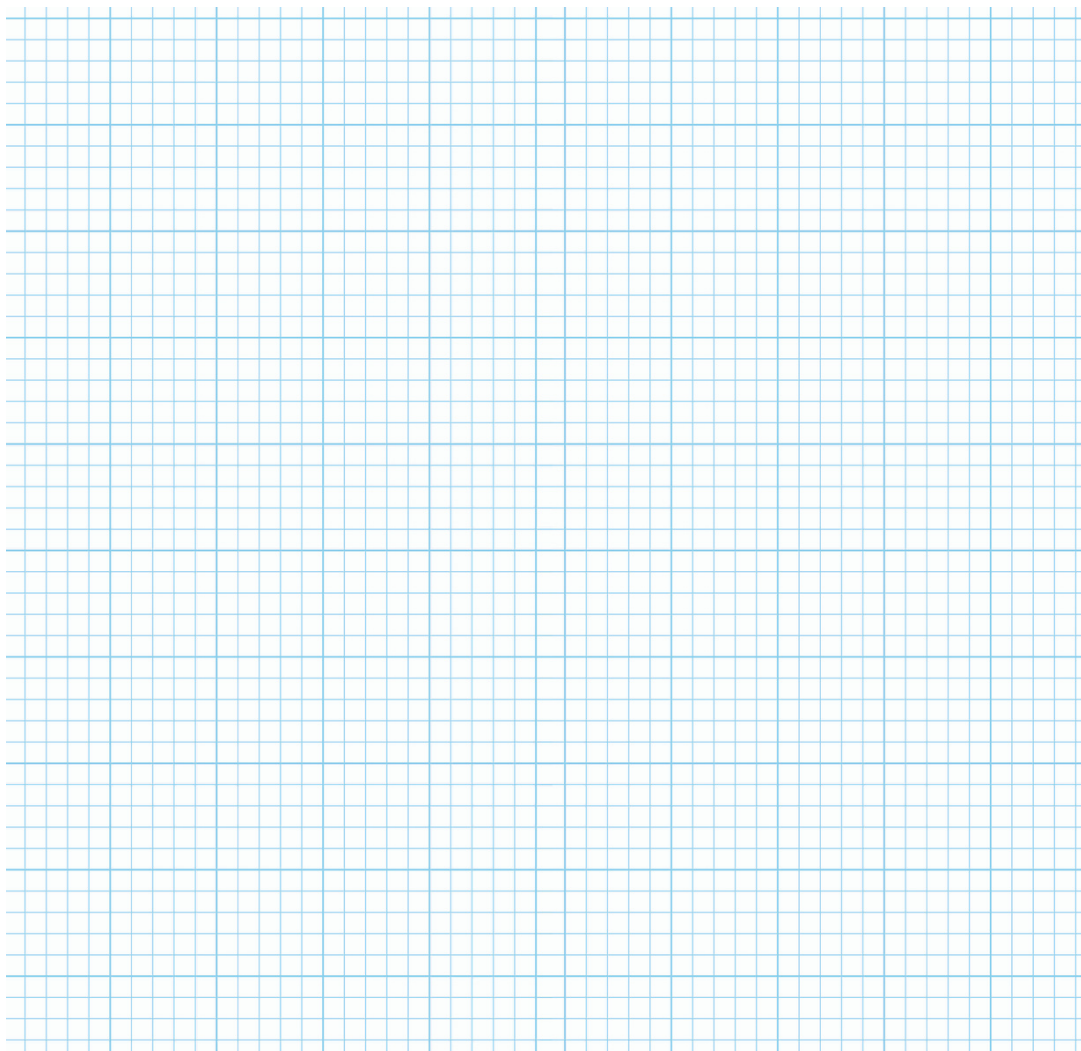
Together with your teacher or parents, determine a safe space in nature where you can go to take some time for yourself. Explore this space and find the place where you feel most comfortable. This space becomes your own personal sitting spot.



MINDFULNESS

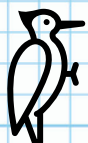
SOUND MAP

Sit comfortably at your sitting spot. Close your eyes, relax and listen. What do you hear? What picture can you draw to represent this sound? Use this blank chart to create your own sound map to compare with others later.



CHOOSE YOUR SITTING SPOT. DESCRIBE WHY YOU CHOSE IT:

Handwritten text area for describing the sitting spot.



I hear a woodpecker on a log



I hear wind in the trees

I'm here



I hear footsteps in the snow



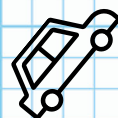
I hear Lily's breathing

A SOUND MAP CAN LOOK LIKE THIS:



I hear kids playing outside

I hear a car on the street



CHALLENGE #4

TECHNOLOGY

HOW ABOUT ADDING A QR CODE TO YOUR WORK TO TELL ITS STORY?



Write a text inspired by your snow creation. It can be a story, a legend, a historical or scientific fact, a joke... It doesn't matter.

When your text is finished, you can use a site like <https://bookcreator.com/> to host it.

When your text is in virtual mode, it's time to create your QR code: <https://www.the-qrcode-generator.com>

The ideal would be to be able to engrave your code on a piece of wood with a 3D laser printer, it's more ecological.

You can also print it on paper and laminate it... Don't forget that you are responsible for removing it at the end of your project.

HAPPINESS SHARING

FUN SNOW CREATIONS



Make fun and creative structures with snow and ice all over your neighborhood or in a strategic location where you know how to put a smile on a face. A small gesture, a little attention, can make all the difference in the life of a neighbor.

You don't have enough snow? Use rocks, mud, branches... Be creative!

DRAW IDEAS OF STRUCTURES



MAKE A SCALE PLAN OF THE PLACE YOU HAVE CHOSEN FOR YOUR CREATION.

CHALLENGE #5

DESIGN AND CREATE

WHAT CAN YOU CREATE WITH NATURAL TREASURES?

What are you going to create from the natural objects you found on your treasure hunt? Can you name the type (or species) of object you found? Maybe you can start a collection or identification charts?

WHEN YOU CREATE WITH NATURE

- Don't forget that this natural area is home to a unique biodiversity.
- Take only the elements on the ground or non-living and don't take everything (this is called conservation).
- Try to restore the space to its original state.
- This awareness is an important part of making with nature! We share space with other living beings, let's not forget it.



SEEK SCAVENGER HUNT

Go outside and look for things, natural or created by humans, that begin with each letter of the alphabet? Write or draw each object.

A	N
B	O
C	P
D	Q
E	R
F	S
G	T
H	U
I	V
J	W
K	X
L	Y
M	Z

WRITE A POEM OR CREATE WORD ART USING SOME OF THE WORDS YOU FOUND IN NATURE.



CHALLENGE #6

DID YOU KNOW?

There are 10 main categories of clouds which are grouped into 4 classes according to the altitude (height) at which the cloud is formed. To designate the altitude, we use the following prefixes:

Cirro- more than 6000m

Alto- between 2000 and 6000m

Strato- less than 2000m

Cumulo- Indicates clouds with great vertical extension

Source- Alloprof



CUMULUS



STRATUS



STRATOCUMULUS

Download the free application "Field Guide to Clouds" from UCAR Center for Science Education to identify all your clouds.



OBSERVE HEAD IN THE CLOUDS

Choose a space, the same one for all your research. Lie on your back and observe the clouds directly above you. Draw and note your observations in order to identify them later.

	DRAW THE CLOUDS	DESCRIBE OBSERVATIONS	WHICH CLOUD IS IT?
DAY 1			
DAY 2			
DAY 3			
DAY 4			
DAY 5			



WATER CYCLE

A CLOUD IS THE PHENOMENON THAT OCCURS WHEN WATER VAPOR IN THE ATMOSPHERE COOLS AND CONDENSES.