

TASK



ORIGAMI KUSUDAMA CONTEST

C6 – STEAM like Leonardo

**Leonardo the Mathematician and the
Scientist**

Coordinating countries:

Spain, Romania, Belgium, Poland, Italy

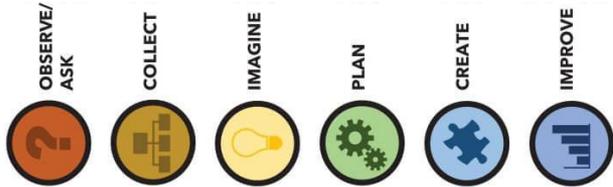
LESSON PLAN

ORIGAMI KUSUDAMA CHALLENGE STEAM like Leonardo - C6 Leonardo the Mathematician and the Scientist

Aim:

You will have to build 5 different shapes using origami kusudama technique/procedure.

STEAM:



Final products:

Photos of the shapes, videos

Organisation:

Every partner involves how many students would like to accept the challenge

Activities:

5 international challenges



ACTIVITIES:

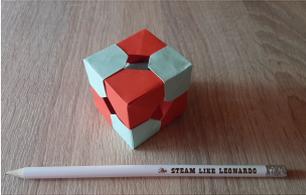
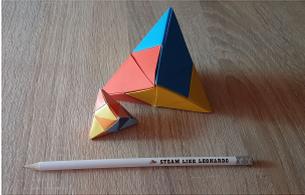
- ACT 1: **BE** challenge
- ACT 2: **IT** challenge
- ACT 3: **PL** challenge
- ACT 4: **RO** challenge
- ACT 5: **SP** challenge

The task will be presented on etwinning and on the project site pages

Assessment: Relaxing moments and a lot of fun

CHALLENGES ...



	Challenge 1	Challenge 2	Challenge 3	Challenge 4	Challenge 5
	<p>Cube with holes</p> 	<p>Origami Tetrahedron</p> 	<p>Kusudama Triangular Origami</p> 	<p>Origami cube of pyramids</p> 	<p>Octahedron Origami</p> 
	BELGIUM	ITALY	POLAND	ROMANIA	SPAIN



CHALLENGES DESCRIPTION



Our dear students, this time you will have to prove your hand work ability in folding the paper so that it turns into a special shape. Your patience will be challenged as you will not probably succeed from your first attempt. But we trust you and encourage you to go on even if sometimes it is easier to give up.

Your reward will be the pleasure of the participation and your success! To win you have to post a photo with all 5 products on the facebook page of our project, https://www.facebook.com/search/top/?q=steam%20like%20leonardo&epa=SEARCH_BOX

Ask you teacher to help you, if you cannot post it on the page!

Good luck!



GENERAL TIPS



- use 10 cm squares, even bigger if possible
- do not use thin paper, find a thicker one
- fold the paper on a table(flat surface), respecting the lines very carefully
- use sometimes paper clips to keep pieces tightly to get them assembled easier
- use no sticky post-it squares when possible because they are perfectly cut
- be patient, do not give up, you will succeed!

KUSUDAMA

- an ancient form of art, it is not well known around the world as much as it is in Asia
- The Japanese kusudama (薬玉; lit. medicine ball) is a paper model that is usually created by sewing multiple identical pyramidal units square paper together through their points to form a spherical shape.

Culture fact:

The kusudama is important in origami particularly as a precursor to the modular origami genre. It is often confused with modular origami, but is not such because the units are strung or pasted together, instead of folded together as most modular construction are made.

Tools: youtube tutorials



ACTIVITY 1 - Part 1: BE challenge



Cube with holes

Follow the link and be ready to be a handywoman/handyman!

<https://youtu.be/pkt4AXooj1U>



TIP: use 12 cm squares of 2 different colours

When you finish it post your photo with it on the Facebook page of our project, STEAM like Leonardo, under the topic **BE_Challenge 1**

STARTING DAY 15th April 2020

DEADLINE: 17th April 2020

RESOURCES: Youtube tutorial



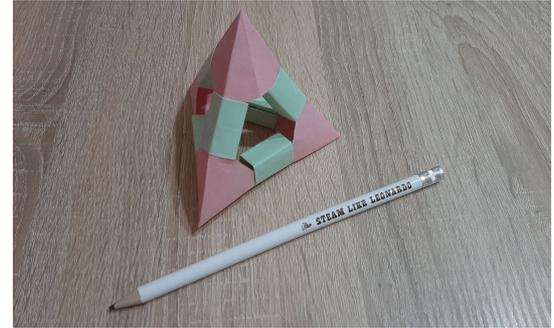
ACTIVITY 2 - Part 2: IT challenge



Origami Tetrahedron

Follow the link and be ready to be a handywoman/handyman!

https://youtu.be/y2nz_Rw5yw0



When you finish it post your photo with it on the Facebook page of our project, STEAM like Leonardo, under the topic **IT_Challenge 2**

STARTING 20th April 2020

DEADLINE: 22nd April 2020

RESOURCES: Youtube tutorial



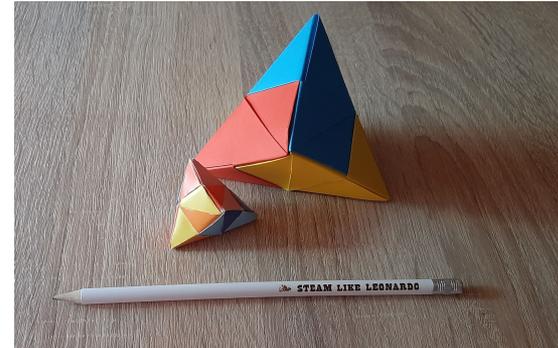
ACTIVITY 3 – Part 3: PL challenge



Kusudama triangular origami

Follow the link and be ready to be a handywoman/handyman!

<https://youtu.be/AczkSalt88U>



TIP: to be more spectacular use paper with 2 different colour surfaces

When you finish it post your photo with it on the Facebook page of our project, STEAM like Leonardo, under the topic **PL_Challenge 3**

STARRING DAY 23rd April 2030

DEADLINE: 25th April 2020

RESOURCES: Youtube tutorial



ACTIVITY 4 – Part 4: R0 challenge

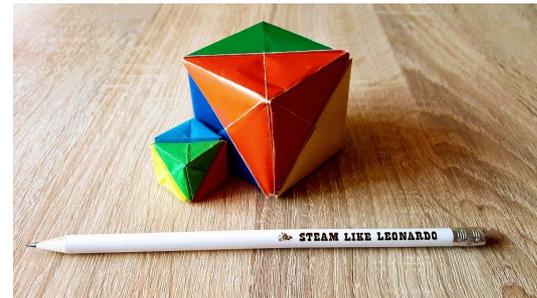


Origami cube of pyramids

Follow the link and be ready to be a handywoman/handyman!

TIP: use squares at least of 15 cm (not smaller)

<https://youtu.be/pxvy11evb9g>



When you finish it post your photo with it on the Facebook page of our project, STEAM like Leonardo, under the topic **R0_Challenge 4**

STARTING DAY 27th APRIL 3030

DEADLINE: 29th April 2020

RESOURCES: Youtube



ACTIVITY 5 – Part 5: SP challenge



Octahedron Origami

Follow the link and be ready to be a handywoman/handyman!

TIP: use three different colours

<https://youtu.be/ksosmt1ARtU>



When you finish it post your photo with it on the Facebook page of our project, STEAM like Leonardo, under the topic **SP_Challenge 5**

STARTING DAY 30th April 2020

DEADLINE 2nd May 2020

RESOURCES: Youtube

PLEASE RESPECT DEADLINES
AND



REPORT ANY PROBLEM TO THE COORDINATING TEACHERS