

# Can a Dice be Flat?

MATH

## Get curious

---

Video/ Slide show

**Watch the video that presents animated origami.**

Give each team five plane figures.

Having watched the video, ask your students the following questions:

Which of the following shapes were you able to see in the structure of leaves, the caterpillar and the butterfly?

What do we call these shapes?

Do you see any plane figures in this room?

What are the differences between plane figures and solid figures?

Where do you see solid figures in this room?

## Get going

---

Analyzing

**The students spread the boxes flat first, and then they cut them in such a way as to obtain the nets of polyhedra.**

Do you know what solid geometric shapes are your boxes?

What plane figures do your boxes consist of?

Manual exercise

**The students glue a dice model together.**

Give each student a sheet of paper with a net of a dice printed on it. The children cut the dice out first, and then glue it together.



If you have more time at your disposal, you can suggest to the children that they color their dice before gluing them together.

What will you obtain after gluing together this geometric net?

What plane figures does it consist of?

How to check whether the faces of your solids are squares or rectangles?

Analyzing

**How many faces does a dice have? The students count the faces, edges and angles of the solids they have created.**

## Get practicing

---

Manual exercise

**The students create three-dimensional shapes using drinking straws and plasticine.**

The task of each pair (or team) is to construct a cube using the materials they have been given.

---

