

The Symmetry Challenge Video Transcript

Music Plays

Graphic Text Display

Victorian Maths Challenge.

The Symmetry Challenge.

SCENE 1

Host

Hi, I'm Kristin. I'm a graphic design student and I'd like to welcome you to the Symmetry Challenge.

The word Symmetry comes from Syn, meaning together, and Metron, meaning measure.

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Syn = Together

Metron = Measure

Host

The symmetry challenge is about creating designs that are unique to you and your family, while thinking about the basic elements of geometry; the transformative nature of shapes or objects.

Understanding symmetry is important in many careers, including design, engineering and architecture.

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Design. Engineering. Architecture.

Host

In Graphic Design, symmetry creates balance. Designs that need more stability tend to use more symmetry. Symmetry can be good for design layout but asymmetry when you want to be more risk-taking with your design

SCENE 2

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Maths Concepts

Host

Today we will be discussing two types of symmetry – line and rotational.

Line symmetry is also known as mirror symmetry. A shape or object has a line of symmetry that divides the shape in to two halves, each looking the same, a though as being reflected.

Rotational symmetry is where a shape or an object can rotate around its centre and fit in to itself more than once.

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Animation with a line of symmetry reflecting the letter H, then a circle, a square and a star.

The star rotates within a circle, fitting in to itself in five times. The orders of rotational symmetry are highlighted by smaller animated stars.

Host

Let's have a look at symmetry in your environment.

SCENE 3

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The Challenge

Host

The symmetry challenge encourages you to work as a team, collecting every household item you have touched in the space of an hour. You will then classify and arrange them in a weird and wonderful design. And once you are happy with your design, take a snap and post on the Gallery.

Well that's it from me.

You can challenge yourselves to try more complex designs and look at rotational symmetry.

Good luck!

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The Education State.

Victoria State Government.

Music Stops