

## Lesson Plan for S1

### TOPIC: **SYMMETRY AND TRANSFORMATION**

Class Length: 50 minutes

#### Objectives of the Lesson

1. Students are able to identify objects that have symmetry and rotational symmetry.
2. Students are able to find the number of axes of a symmetrical object; and the order of symmetry of an object with rotational symmetry.

#### Lesson preparation items:

1. Lesson slides (provided)
2. Create classroom [YoTeach!](#) backchannel chatroom
  - a. E.g.: <https://palms.polyu.edu.hk:8448/yo/SSMath1>, password: Fred
3. Prepare Realtimeboard with an assortment of logos
  - a. E.g.: [https://miro.com/app/board/o9J\\_kyHmVg8=](https://miro.com/app/board/o9J_kyHmVg8=/)
4. Setup [Badaboom!](#) game quiz
  - a. Question folder ID: [folder\\_5e7c04233b71540017c86c8b](#)

Lesson Stage	Content / Topic	Activity / Tool	Class / Group / Individuals	Time
Introduction of concepts	Symmetry definition	Lesson slides: Symmetry	Class	10 minutes
Application of concepts	Basic symmetry examples	YoTeach: To ask students to post objects with symmetry or rotational symmetry Teacher to comment on their pictures	Individuals	10 minutes
Exploration of concepts	Symmetry in the real world	Realtimeboard: To ask students to explore and deduce the properties of symbols of 18 districts/logos	Groups	10 minutes
Review of concepts	Symmetry	Badaboom: To check students' understanding with interactive questions	Groups	10 minutes
Self-reflection on lesson		YoTeach: Students to write or type what they have learnt	Individuals	10 minutes