

TOPIC : QUADRATIC EQUATION I

Class Length: 55-60 minutes

Objectives of the Lesson

1. Students understand the basic concepts of quadratic equations.
2. Students are able to solve quadratic equations with the method of factorization.

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 factorization practice questions
 - a. E.g.: https://miro.com/app/board/ogJ_ky5nc68=/
4. Setup [Badaboom!](#) game quiz
 - a. Question folder ID: **folder_5e7c136f3b71540017c86c92**

Lesson Stage	Content / Topic	Activity / Tool	Class / Group / Individuals	Time
Engage student interests and recall pre-existing knowledge	Polynomials and equations	YoTeach: To ask students to give examples of polynomials and equations (additional activity: students need to give a polynomial with a degree higher than those given before) Teacher will comment on the given polynomials and equations	Individuals	10-15 minutes
Introduce concepts	Quadratic equations and factorization	Lesson slides: Quadratic Equations I	Class	10 minutes
Apply concepts	Factorization practice	Realtimeboard: To ask students to use Realtimeboard to solve the quadratic equations with the method of factorization	Groups	20 minutes
Review of concepts	Quadratic equation questions	Badaboom: To ask students to answer both conceptual questions and practical problems in Badaboom to check their understanding	Groups	10 minutes
Self-reflect on lesson		YoTeach: Students to write or type what they have learnt	Individuals	5 minutes