

# Technology-enhanced Learning - Activity Plan

**Name:** *Edward Williams*

**Grade / Course:** 6 / Mathematics

**Length of Activity:** *60 minutes*

## Lesson Summary:

Students will review the concept and definition of a line, then draw and distinguish between parallel and perpendicular lines.

## Lesson Objective:

To provide students with an opportunity to develop the concepts of parallel and perpendicular line; identify parallel and perpendicular lines; draw parallel and perpendicular lines; and differentiate between parallel and perpendicular lines.

## Resources/Technology – Teacher

Projector and Computer

Parallel and Perpendicular Lines

- <http://www.mathsisfun.com/geometry/parallel-perpendicular-lines-planes.html> - “Explanation of parallel and perpendicular lines”
- <https://www.youtube.com/watch?v=1h9IQaIXNh4> “Transformations in Terms of Parallel and Perpendicular Lines”
- [https://learnzillion.com/lesson\\_plans/471-identify-and-draw-parallel-and-perpendicular-line-segments-by-examining-their-characteristics](https://learnzillion.com/lesson_plans/471-identify-and-draw-parallel-and-perpendicular-line-segments-by-examining-their-characteristics) “Lesson on Parallel and perpendicular lines”

## Resources/Technology – Students

Computer Lab or Student Laptop setting, personal access to the Internet

Parallel and Perpendicular Lines Online Resources

- <https://www.youtube.com/watch?v=A09rmiT89MA> “Real life examples of parallel lines
- <https://www.youtube.com/watch?v=vnnwfcDcNIY> “Intro to Parallel and Perpendicular Lines”
- <https://www.khanacademy.org/math/basic-geo/basic-geo-lines/parallel-perp/e/drawing-parallel-and-perpendicular-lines> - “Draw parallel and perpendicular lines”

## Intended Learning Outcomes

- Students will learn the properties of both parallel and perpendicular lines
- Students will draw parallel and perpendicular lines
- Students will have the opportunity to spend time exploring the concepts of parallel and perpendicular lines

## Instructional Activities

The teacher will review and present materials using computer and projector to the whole class.

The teachers allow students to explore the concepts of both parallel and perpendicular lines with real life examples (20 minutes)

Teacher to provide instructions on how to maneuver the mouse to draw parallel and perpendicular lines. (15 minutes)

Students are given time to complete the lesson activities. (25 minutes)

**Learner Assessment**

Observation of students drawing parallel and perpendicular lines using checklist