

Grade 10

Distance Learning Module 1

March 30 - April 3

Mathematics: Geometry, Level 3 - Modified from [Unit D - Quadrilaterals](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: the sum of the interior angles of a polygon with n sides = $(n-2)180$, the sum of the exterior angles of a polygon with n sides = 360 (regardless of n)

Vocabulary: regular polygon, concave, convex, exterior angle, interior angle, diagonal

Skills: finding interior and exterior angles measures of a polygon, solving regular polygon problems involving angles

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Introduction to Distance Learning and the definition of a polygon	<u>chapter 4 polygon slides #2-5</u>	response: What are your concerns about distance learning? 4.1 Exit slip
Tuesday: Classifying polygons as concave, convex, regular; naming polygons based on sides and angles	<u>chapter 4 polygon slides #5-9</u>	Draw a picture of a convex polygon, a concave polygon, and a regular octagon, take a picture with your phone and submit it.
Wednesday: Sum of interior angles formula	<u>chapter 4 polygon slides #10-17</u>	<u>4.1 Interior angles worksheet</u>
Thursday: Sum of exterior angles = 360 degrees	<u>chapter 4 polygon slides # 18-19</u>	<u>4.1 Homework (Interior and exterior angles)</u>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Friday: Solving problems related to regular polygons	<u>chapter 4 polygon slides</u> # 10-19	<u>4.1c - Regular polygons - interior and exterior angles(convert to Google doc)</u>

Week criteria for success (attach student checklists or rubrics):

At the end of this module, students will be able to:

- Determine the sum of the interior angles of a polygon
- Determine the sum of the exterior angles of a polygon
- Solve problems related to regular polygons

Supportive resources and tutorials for the week (plans for re-teaching):

[chapter 4 polygon slides](#) , embedded links, Office Hours