

Grade 10

Distance Learning Module 4: Week of: 4/20 - 4/24

**Exponential and Logarithmic Functions Applications**

**Mathematics: Algebra 2 (Level 1) - Modified from [Unit 6 - Exponential and Logarithmic Functions](#)**

**Targeted Goals from Stage 1: Desired Results**

**Content Knowledge:** writing exponential and logarithmic functions, solving exponential and logarithmic equations

**Vocabulary:** half-life

**Skills:** identifying the variables of a given situations, writing a function for a given situation and solving it.

**Expectation:**

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Exponential Growth and Decay Word Problems Exponential Models of population	Video Tutorial: Exponential Growth and Decay Word Problems LIVE Instruction	Snapshot of Students Homework Solutions
Tuesday: Constructing Exponential Models (Percent change, half life etc)	Video: Constructing Exponential Models Video: Half Life Video: Percent Change	Khan Practice: Construct Exponential Models
Wednesday: Solving exponential models with logarithm	LIVE Instruction	Snapshot of Students Homework Solutions
Thursday: Solving exponential models with logarithm	Video: Medication Dissolve Video: Bacteria Growth	Khan Practice: Exponential Model Word Problems
Friday: More application problems and Review	LIVE Instruction	Snapshot of Students Homework Solutions

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

- ☐ I can write exponential equations for real life situations

- ☐ I can solve problems modeled by exponential functions
- ☐ I can solve real life situation modeled by exponential function using logarithms

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

- Office hours,
- Textbook,
- Khan academy
- Module 4 - Google Slides