

ARC Week at Glance

Subject: Math

Course: Advanced Algebra Concepts & Connections

Grade: 10^h – 12^h

Dates: 9/23 to 9/27

Standard(s):

AA.FGR.3 Explore and analyze structures and patterns for exponential functions.

AA.FGR.3.2 Analyze, graph, and compare exponential and logarithmic functions.

AA.MM.1.2 Create mathematical models to explain phenomena that exist in the natural sciences, social sciences, fiber arts, performing arts, and/or humanities contexts.

Assessment(s): Quiz Unit Test Project Lab • None

Learning Target
(I am learning
about...)

Criteria for Success
(I can...)

Opening
(10- 15 Mins)

Work -Session
(20

I can identify domain
& range, intercept(s),
asymptote(s), and
transformations with
graphs of exponential
GROWTH functions.

Paper Folding Hands
on Activity with the
Investigating
Exponential Growth
and Decay Learning
TaskPart I

Thursday	I am learning about graphs and characteristics of exponential functions.	I can match functions with their transformations and important characteristics	Check # 12 Model exemplars and "Do Nots"	Exponential Growth & Decay Sorting Cards small groups	Check with guidance and feedback	Identify transformations (horizontal or vertical shifts, reflections and dilations) to compare different functions
Friday	I am learning about graphs and characteristics of exponential functions.	I can graph and describe characteristics of exponential growth & decay functions.	Bacteria in the Swimming Pool Part I ILP Diagnostic	Bacteria in the Swimming Pool Part II	Bacteria in the Swimming Pool Part III	What patterns do you see? Can you write a function "that works"?

- * • Exit Ticket/Final Stretch Check • Electronic Tools • Dry Erase Boards quick checks • Turn & Talk Discussion (verbal responses) • Teacher Observation document Clipboard
• Quick Write/Draw • Annotation • Extended Writing • Socratic Seminar • Jigsaw • Thinking Maps • Worked Examples • Other: _____