

Name: _____

Unit 1 Assessment and Grading: Arithmetic and Geometric Sequences

Teachers first evaluation of understanding from assignments and ongoing class observation and discussions.
[Check teacher notes on assignments]

Student made progress by using teacher notes to try again or had a conversation to share understanding.

Levels of Competency:	0-None	1- Beginning I can...	2- Emerging I can...	3- Proficient I can...	4- Transfer/ Application I can...
Identifying Patterns and Relationships Milestone 1 Milestone 2 (1 credit)	No attempt.	Identify a given sequence as either arithmetic or geometric.	Identify a given sequence as either arithmetic or geometric AND find the common difference or common ratio.	Extend arithmetic sequences and geometric sequences to find missing values in order to solve problems.	Compare how the quantities in arithmetic sequences and geometric sequences in given situations can grow or decrease as the situations continue.
Build a function that models a relationship between two quantities Milestone 3 (1 credit)	No attempt.	Write recursive formulas for Arithmetic and Geometric Sequences.	Write recursive and explicit formulas for Arithmetic and Geometric Sequences.	Write recursive and explicit formulas for Arithmetic and Geometric Sequences. Understand in what situations one would be preferred over the other.	Use Arithmetic and Geometric explicit formulas to find the n^{th} term of a sequence.
Construct and compare linear & exponential models and solve problems. Milestone 4 (1 credit)	No attempt.	Distinguish between situations that can be modeled with arithmetic and geometric sequences.	Construct arithmetic functions given a description of a relationship.	Construct arithmetic AND geometric functions given a description of a relationship.	Apply arithmetic and geometric functions to solve problems.

Model with Mathematics Milestone 4 (0.5 credits)	No attempt.	Identify important quantities in a situation.	Use important information to fill in an input-output table.	Use input and output tables to create a graph for arithmetic and geometric functions.	Create a pattern that can be modeled by arithmetic and geometric sequences.
Attend to Precision Milestone 3 Milestone 4 (0.5 credits)	No attempt.	Use clear definitions in reasoning.	Use clear definitions in reasoning. Write subscript and function notation correctly.	Use definitions and notation in reasoning. Show step by step how definitions and formulas were used to solve a problem.	Communicate precisely to others by creating a poster of learning or help another student understand.