

Unit 1 Performance Task: Lights, Camera, Math!

Name: _____

Date: _____

Period: _____

Your mission is to create a tutorial video for your classmates on a Unit 1 topic. You may use any technology platform you are familiar with ([iMovie](#), [ScreenCastify](#), [Educreation](#), etc.) and must meet the following criteria:

- Video is 2-5 minutes in length.
- 3 examples of varying difficulty are provided.
- Appropriate mathematical vocabulary (including classification of polynomials) is used.

You must choose one of the following topics:

- Simplify radical expressions

Simplify radical expressions. N.RN.2			
4: Radical is completely simplified using the given operation for a root other than 2.	3: Square root is completely simplified using the given operation.	2: Square root is partially simplified.	1: Square root is not correctly simplified.
Constructing Viable Arguments, MP3			
4: The presentation is clear, understandable, and engaging.	3: The presentation mathematically makes sense, but the delivery could be improved on.	2: The uncertainty in math makes the presentation awkward, distracting, or confusing.	1: The presentation is unclear in delivery and confusing.

- Add radical expressions

Simplify radical expressions. N.RN.2			
4: Radical is completely simplified using the given operation for a root other than 2.	3: Square root is completely simplified using the given operation.	2: Square root is partially simplified.	1: Square root is not correctly simplified.
Constructing Viable Arguments, MP3			
4: The presentation is clear, understandable, and engaging.	3: The presentation mathematically makes sense, but the delivery could be improved on.	2: The uncertainty in math makes the presentation awkward, distracting, or confusing.	1: The presentation is unclear in delivery and confusing.

- Subtract radical expressions

Simplify radical expressions. N.RN.2			
4: Radical is completely simplified using the given operation for a root other than 2.	3: Square root is completely simplified using the given operation.	2: Square root is partially simplified.	1: Square root is not correctly simplified.
Constructing Viable Arguments, MP3			
4: The presentation is clear, understandable, and engaging.	3: The presentation mathematically makes sense, but the delivery could be improved on.	2: The uncertainty in math makes the presentation awkward, distracting, or confusing.	1: The presentation is unclear in delivery and confusing.

- Multiply radical expressions

Simplify radical expressions. N.RN.2			
4: Radical is completely simplified using the given operation for a root other than 2.	3: Square root is completely simplified using the given operation.	2: Square root is partially simplified.	1: Square root is not correctly simplified.
Constructing Viable Arguments, MP3			
4: The presentation is clear, understandable, and engaging.	3: The presentation mathematically makes sense, but the delivery could be improved on.	2: The uncertainty in math makes the presentation awkward, distracting, or confusing.	1: The presentation is unclear in delivery and confusing.

- Add and subtract polynomials

Simplify using polynomial operations. A.APR.1			
4: Polynomial is completely simplified using multiple operations.	3: Polynomial is completely simplified using the given operation.	2: Polynomial is partially simplified using the given operation.	1: Polynomial is not correctly simplified.
Constructing Viable Arguments, MP3			
4: The presentation is clear, understandable, and engaging.	3: The presentation mathematically makes sense, but the delivery could be improved on.	2: The uncertainty in math makes the presentation awkward, distracting, or confusing.	1: The presentation is unclear in delivery and confusing.

- Multiply polynomials

Simplify using polynomial operations. A.APR.1			
4: Polynomial is completely simplified using multiple operations.	3: Polynomial is completely simplified using the appropriate operation.	2: Polynomial is partially simplified using the appropriate operation.	1: Polynomial is not correctly simplified.
Constructing Viable Arguments, MP3			
4: The presentation is clear, understandable, and engaging.	3: The presentation mathematically makes sense, but the delivery could be improved on.	2: The uncertainty in math makes the presentation awkward, distracting, or confusing.	1: The presentation is unclear in delivery and confusing.

- Convert between units of measurement

Use units of measure as a way to understand problems. N.Q.1			
4: Identify and convert units or rates using multi-step dimensional analysis in the context of a problem.	3: Identify and convert units using dimensional analysis in the context of a problem.	2: Identify and convert units but does not use dimensional analysis in the context of a problem.	1: Units are correctly identified.
Constructing Viable Arguments, MP3			
4: The presentation is clear, understandable, and engaging.	3: The presentation mathematically makes sense, but the delivery could be improved on.	2: The uncertainty in math makes the presentation awkward, distracting, or confusing.	1: The presentation is unclear in delivery and confusing.