

# Mathematics Class Slides

## Bronx Early College Academy

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24 March 2020

7.1 Online startup - exponents

Tuesday 24 March

7.2 Arithmetic sequences

Friday 26 March

## GQ: How do we use exponents (and logs)?

CCSS: HSF.IF.C8.A Understanding rate of change

7.1 Tuesday 24 March

### Do Now: Welcome to Beca Online!

- ▶ Complete the attendance question in Google Classroom
- ▶ Write in your notebook my new email, [chuson@beca324.org](mailto:chuson@beca324.org)
- ▶ Complete the G-Classroom "Do Now" questions

### BECA Online expectations

Lesson:

Applications of exponential functions: log plots

Exit note: complete G-Classroom checkin survey

Homework: Kognity assignment, due by 10:00pm Thursday

## GQ: How do we model sequences?

CCSS: HSF.IF.C8.A Understanding rate of change

7.2 Friday 26 March

Do Now: Study the COVID-19 Expert Forecast for the U.S.

- ▶ When will the number of hospitalizations peak, in their opinion?
- ▶ How much worse than the flu will this be in terms of annual deaths?
- ▶ Give a short written answer by private Zoom chat

Kognity textbook feedback

Lesson:

Analyzing the pandemic as frequencies, probabilities, & sequences

Breakouts: infections, ER seasonality, hospitalizations, deaths

Project: Pandemic analysis, due 10:00pm Tuesday

## GQ: How do we model sequences?

CCSS: HSF.IF.C8.A Understanding rate of change

7.2 Friday 26 March

### Project: Pandemic analysis

- ▶ Organize as an exploration: intro, body, conclusion, reflection, engagement
- ▶ “The aim of this exploration is to understand COVID-19 in NY State as a exponential or geometric process”
- ▶ Select one metric: infections, hospitalizations, or deaths
- ▶ Use a table(s) and/or chart(s) (pie, bar) as background
- ▶ Fit an exponential function / geometric sequence to the NYC COVID-Tracking data