# Mathematics Class Slides Bronx Early College Academy

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12 November 2019

- 3.0 Exploration project paper schedule
- 3.1 Exploration paper student work time (1) 12 Nov
- 3.2 Introduction to probability 13 Nov
- 3.3 Probability as fractions 14 Nov
- 3.4 Exploration paper student work time (2) 15 Nov
- 3.5 Sample spaces & Venn diagrams 18 Nov

# GQ: How do we employ mathematics to explore a topic?

CCSS: MP5 attend to precision originally Thursday 31 Oct

#### Exploration: Schedule and deadlines

- 1. Topic selection Monday November 4th
  - 1.1 Independent work on introduction, data, mathematics Nov 11
  - 1.2 Complete design of methods, collect data Nov 15
- 2. Complete paper for peer review Friday November 22nd
- 3. Complete paper for grade Friday December 6th
- 4. Final paper Friday January 17th

## GQ: How do we use mathematics to explore a topic?

CCSS: MP5 attend to precision 3.1 Tuesday 12 Nov

#### Work on exploration papers

- 1. Inputs: what data will you use and how will you get it?
- 2. What mathematics will you apply (find the textbook chapter)
- 3. Outputs: What results will you use to answer your aim?
- 4. Start drafting and re-drafting your introduction (aim, rationale, personal engagement)

Homework: Develop exploration

# GQ: How do we use mathematics to explore a topic?

CCSS: MP5 attend to precision 3.2 Wednesday 13 Nov

## Do Now Skills check page 205

- 1. Treat probabilities as fractions between zero and one
- 2. Use tables to organize data

Afterschool today; parent conferences tomorrow 4:00-7:00, Friday Lesson: theoretical and experimental probabilities, notation Sleeping situation

Homework: Read and evaluate sample exploration paper according to criteria pp. 737-740

GQ: How do we quantify uncertainty?

CCSS: MP5 attend to precision 3.3 Thursday 14 Nov

## 2.16 Do Now: Dice probability

1. probability tables (pdf)

Scoring an exploration paper Lesson: Probability calculations

Homework: Textbook exercises 5A p. 210-211; exploration paper

GQ: How do we use mathematics to explore a topic?

CCSS: MP5 attend to precision 3.4 Friday 15 Nov

#### Work on exploration papers

- 1. Inputs: what data will you use and how will you get it?
- 2. What mathematics will you apply (find the textbook chapter)
- 3. Outputs: What results will you use to answer your aim?
- Start drafting and re-drafting your introduction (aim, rationale, personal engagement)

Homework: Develop exploration

GQ: How do we organize the event space for analysis?

CCSS: MP5 attend to precision 3.5 Monday 18 Nov

## 2.16 Do Now: Express each probability as a fraction

- 1. Rolling a twelve with two dice
- 2. Drawing an ace from a deck of cards
- 3. Having a birthday on a weekday
- 4. Two students in a class of 30 have the same birthday

Review homework problems 5A p. 211 Lesson: Venn diagrams and sample spaces

Homework: Textbook exercises 5B p. 215; exploration paper