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 distributions and expected value 14 Nov

3.4 Exploration paper student work time (2) 15 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

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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