## 1.1 IB Math - Unit 6 Probability Bronx Early College Academy

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30 January - 14 February 2019

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BECA / Dr. Huson / 11.1 IB Math - Unit 6 Probability 6.1 Probability definitions, Wednesday 30 January 6.2 Venn diagrams, Thursday 31 January 6.3 Addition rule of probabilities, Monday 4 February 6.4 Probability definitions, Wednesday 6 February 6.5 Probability definitions, Thursday 7 February 6.6 Sample space diagrams, Monday 11 February 6.7 Sample space diagrams, Tuesday 12 February 6.8 Independence, Wednesday 13 February 6.9 Conditional probability, Thursday 14 February 6.10 Conditional probability, Monday 25 February

6.11 Deltamath Conditional probability, Tuesday 26 February

GQ: How do we talk about probability?

CCSS: HSF.IF.C.7 Analyze functions 6.1 Wednesday 30 January

Do Now: Skills check p. 62 #1-2

Lesson: History of the study of games of chance, sample space, frequency

Homework: Exercises 3A p. 67-68

GQ: How do we notate sample spaces with Venn diagrams? CCSS: HSF.IF.C.7 Analyze functions

6.2 Thursday 31 January

Do Now: Probability handout

Lesson: Sets, complements, union, intersection, empty set

Homework: Exercises 3B p. 71-72

## GQ: How do we add the probabilities of multiple events?

CCSS: HSF.IF.C.7 Analyze functions 6.3 Monday 4 February

## Do Now: Draw a Venn diagram of these 110 students:

- 25 students took physics
- ▶ 45 students took biology
- ▶ 48 students took mathematics
- ▶ 10 students took physics and mathematics
- ▶ 8 students took biology and mathematics
- ▶ 6 students took biology and physics
- ▶ 5 students took all three subjects

How many took biology, but neither physics nor mathematics? How many students did not take any of the three subjects?

Lesson: The addition rule, probability

Homework: Exercises 3C p. 74-75 Unit test Thursday

GQ: How do we calculate probability?

CCSS: HSF.IF.C.7 Analyze functions 6.4 Wednesday 6 February

Do Now: Pretest review packet

Lesson: Review for unit test

Homework: study for test tomorrow. Arrive at 8:00 sharp!

GQ: How do we calculate probability?

CCSS: HSF.IF.C.7 Analyze functions 6.5 Thursday 7 February

Assessment: Probability unit test

Homework: Handout practice problems

GQ: How do we add the probabilities of multiple events?

CCSS: HSF.IF.C.7 Analyze functions 6.6 Monday 11 February

Do Now: A six-sided, fair die is rolled 100 times, with x representing each value rolled. Draw a Venn diagram to represent the 100 events.

- ► {x is an even number } was rolled 57 times
- $\{x : x = 2\}$  occurred 15 times

How many times was x = 5 rolled?

Test question review

Lesson: Mutually exclusive sets, sample space diagrams

Homework: Exercises 3D p. 76-77, 3E #1-2 p. 79

GQ: How do we add the probabilities of multiple events?

CCSS: HSF.IF.C.7 Analyze functions 6.7 Tuesday 12 February

Deltamath probability practice

Homework: Complete Deltamath exercises

GQ: How do we multiply the probabilities of multiple events?

CCSS: HSF.IF.C.7 Analyze functions 6.8 Wednesday 13 February

Do Now: 3E p. 80

► medium: exercise #3

spicy: exercise #5

Test question review

Lesson: Independence and multiplying probabilities

Homework: Exercises 3F p. 82-84

GQ: How do we calculate probability given another condition?

CCSS: HSF.IF.C.7 Analyze functions

6.9 Thursday 14 February

Do Now: Read the Monty Hall problem, p. 88. Be prepared to discuss

Test question review Lesson: Conditional probability

Homework: Exercises 3G p. 86-88

GQ: How do we calculate probability given another condition?

CCSS: HSF.IF.C.7 Analyze functions 6.10 Monday 25 February

Do Now: Read the Monty Hall problem, p. 88. Be prepared to discuss

Lesson: Conditional probability

Homework: Exercises 3G p. 86-88

GQ: How do we calculate probability given another condition?

CCSS: HSF.IF.C.7 Analyze functions

6.11 Tuesday 26 February

Deltamath probability practice

Homework: Complete Deltamath exercises