Mathematics Block/Unit Overview

Strand	Probability	Topic:		Grade:	5/6

Specific Curriculum Expectations

D1.6 analyse different sets of
data presented in various ways, including in histograms and broken-line graphs and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions

D2.1 use fractions, decimals, and percents to express the probability of events happening, represent this probability on a probability line, and use it to make predictions and informed decisions

D2.2 determine and compare the theoretical and experimental probabilities of two independent events happening

Lesson Planning

Overview of Lessons:

- Review data management (other lesson plan)
- Review terms with class discrete vs continuous / first vs second hand data
- Review graphs
- Introduce data management work

- Students experiment with graph master
- https://mrnussbaum.com/graphmaster

- Line versus double bar graph for review before assignment
- Work on assignment

- Work period on assignment
- Assignment presentations to groups

- https://mrnussbaum.com/probability-fair-online-game

Mathematics Block/Unit Overview

- https://www.scootle.edu.au/ec/viewing/L118/index.html#

- Allow students time to play around with the probability fair game and explore the concept of probability on their own

- In pairs students will come up with their own probability game

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- Write textbook definition for probability on board
- Allow time for grade 5 (Pg 380) and 6 (Pg 408) to read lesson 1 explore and connect
- Probability games cootie catcher versus coin
- Grade 6s write down/type define theoretical versus experimental probability
- Grade 5s write down probability terms: certain, likely, unlikely, impossible and define them
- Scenario questions as a class (for example what are the chances of someone being struck by lightning? – unlikely) or (what scenarios might we use theoretical or experimental probability)
- Come up with unfair games
- Practice representing probability using fractions
- Both grades work on practice questions

- Play game of skunk
- Discuss the probability aspect
- How likely is it to roll snake eyes or a 1 ?
- How does this help you strategize?

- Allow time for grade 5 (pg 383) and grade 6 (pg 412) to read lesson 2 explore and connect
- Grade 5s need dice or can use a dice simulator during this time
- Grade 6s as a class practice probability in words, fractions, decimals, and percentages
- Practice questions

- Tree graph lesson
- MMS6 pg 416 MMS5 Pg 389

- Theoretical versus experimental probability sheets MMS7 practice for quiz
- Introduce quiz And distribute study sheet

PROBABILITY GAMES:

https://www.scootle.edu.au/ec/viewing/L118/index.html#