Math 7 Strategies 1

Pletcher
September Lessons - Probability

Unit Objectives - Math 7 PSSA

ASSESSMENT ANCHOR

M07.D-S.3 Investigate chance processes and develop, use, and evaluate probability models.

DESCRIPTOR

ELIGIBLE CONTENT

M07.D-S.3.1

Predict or determine the likelihood of outcomes.

M07.D-S.3.1.1

Predict or determine whether some outcomes are certain, more likely, less likely, equally likely, or impossible (i.e., a probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event).

ASSESSMENT ANCHOR

M07.D-S.3 Investigate chance processes and develop, use, and evaluate probability models.

DESCRIPTOR **ELIGIBLE CONTENT** M07.D-S.3.2.1 Determine the probability of a chance event given M07.D-S.3.2 Use probability to predict relative frequency. Predict the approximate relative outcomes. frequency given the probability. Example: When rolling a number cube 600 times. predict that a 3 or 6 would be rolled roughly 200 times but probably not exactly 200 times. M07.D-S.3.2.2

Find the probability of a simple event, including the probability of a simple event not occurring. Example: What is the probability of not rolling a 1 on a number cube? M07.D-S.3.2.3 Find probabilities of independent compound events using organized lists, tables, tree diagrams, and simulation.

Rules of Probability to remember

Probability is between 0 (unlikely) to 1 (likely)

Use probability percent TIMES a set of trials to predict

"Not" is (1-Probability) as a shortcut to ADDING up each individual ones for simple probability. Studyisland.com has this as Simple Probability section.

Compound probability is multiplying events together.

Week Sept 11 Lesson Overview

9/11 Monday: Review Spinner Bingo Notes - Play a few rounds

https://www.nctm.org/adjustablespinner/

9/12 Tuesday Use a GROUP Session of Studyisland Probability Selections for notes.

9/13 Wed. Finished Group Session and started individual sessions on 3 sections.

Understanding Probability (10 items & 70%) M07.0-\$.3.1.1	Approximate Probability (10 items & 70%) M07.0-5.3.2.1	Probability of Simple Events (10 items & 70%) M07.D-S.3.2.2
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9/14-15 We reviewed individual session but continued to improve scores by redoing sessions that fell below 70%

Week Sept. 18 Lesson Overview - use studyisland.com

Monday: 2nd Group Class Session with the "Approximate Prob." as this was the hardest section. Each student gets a hardcopy of problems to write down methods, answers, and additional notes for these.

Tuesday: Students continue to do the individual sessions to get the best score on the Approximate Probability.

Wednesday: Individual Session on Compound Probability on studyisland.com

Thursday: See next slide on activity lesson "Evaluating Probability Events"

Friday: No Class as Powerpuff Game for Homecoming

Thursday Activity:

Students begin by completing 1st page of Evaluating Statements about Probability "Are they Correct".

Review answers together as a class.

Continue with the 2 bags of jellybean exploration question and then true and false questions in groups. Finish by completing the "revisit" worksheet. Link from https://www.map.mathshell.org/lessons.php?unit=7415&collection=8

Sample:

