Grade 7
Distance Learning Module 7: Week of: May 18th – May 22nd

Mathematics Grade 7 *Modified from Unit E - Probability and Statistics*

Targeted Goals from Stage 1: Desired Results

Content Knowledge:

CCSS.MATH.CONTENT.7.SP.C.5 Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. 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.

CCSS.MATH.CONTENT.7.SP.C.6 Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability. For 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.

CCSS.MATH.CONTENT.7.SP.C.8A Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.

CCSS.MATH.CONTENT.7.SP.C.8B Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., rolling double sixes), identify the outcomes in the sample space which compose the event.

Vocabulary: probability, theoretical probability, experimental probability, certain, likely, unlikely, impossible, tree diagram, frequency table, compound event

Skills: 1) Finding experimental probabilities by collecting data
2) Using theoretical probability to predict
3) Using samples to predict
4) Displaying compound events with diagrams or organized lists and then finding probabilities

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Intro to Probability -Watch the video and take notes -Complete the practice problems and check answers. -Answer question posted on Google Classroom.	-Intro to Probability Video (Math Antics) -Practice Problems with Answer Key	Answer Question on Google Forms and submit
Tuesday: Experimental vs. Theoretical Probability -Watch Video and take notes -Read Notes and do practice -Complete Practice Problems on Khan Academy	-Experimental vs. Theoretical Probability Khan Academy Video -Notes, Examples and Practice: Khan Academy Notes -Practice Problems on Khan Academy	Teachers will check Khan Academy results.
Wednesday: Sample Space (tree diagram, list) -Watch Video and take notes -Review posted notes -Complete Practice Problems on Khan Academy	-Sample Space for Compound Events: Khan Academy Video -Practice Problems on Khan Academy -Notes for Tree Diagrams -Great Notes with Examples	Teachers will check Khan Academy results.
Thursday: Fundamental Counting Principle -Read Notes -Watch Video	-Notes for FCP -Video for FCP -Practice Quiz for FCP	Teachers will check Khan Academy results

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
-Take Practice Quiz -Complete Practice Problems on Khan Academy	-Practice Problems for FCP: Khan Academy	
Friday: Review of Probability -Watch Review Video -Take Quiz and submit it for credit	-Watch Review Video	Take Quiz on Google Forms and submit

Week criteria for success:

1) I can explain the difference between experimental and theoretical probability.
2) I can calculate probability.
3) I can draw and interpret a tree diagram that represents sample space.
4) I can use the Fundamental Counting Principle to calculate the sample space.

Supportive resources and tutorials for the week (plans for re-teaching):