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| **I. LEARNING OUTCOMES** | | **Instructional Materials:**  CMP3 Textbook  What Do You Expect  Filling and Wrapping  **DL materials:**  Accommodations will be provided based on individual student-based needs. Materials and classroom accommodations will be created and provided by a DL teacher. |
| **Enduring Understandings**  *After these five weeks, students will understand...* | **Essential Questions**  *To reveal their understandings, ask students...* |
| * *Recognize that probabilities are useful for predicting what will happen over the long run* * *Identify and describe outcomes in a sample space that compose an event* * *Interpret experimental and theoretical probability and the relationship between then (better estimates with larger trial size* * *Determine fairness of a game* | * **How do probabilities help predict outcomes?** * **What outcomes/sample space do I expect for this event?** * **How does theoretical and experimental probability relate?** * **How can I determine if a game is fair?** |
| **II. ASSESSMENT PLAN** | | |
| **Summative Assessments** | | **Diagnostic/Pre-Assessments** |

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| **Student Learning Goals**  *What standards/skills will students learn?* | | **Student Learning Activities**  *To reach these goals, what will students do?* |
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|  | 7.RP.A.2 Recognize and represent proportional relationships between quantities.  7.RP.A.2a Decide whether two quantities are in a proportional relationship by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin. | Investigation 3 |
|  | 7.RP.A.3 Use proportional relationships to solve multistep ratio and percent problems  7.SP.C.8 Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation  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 . | Investigation 3 |
|  | 7.SP.C.8b Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams  7.SP.C.7a Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events | Begin Investigation 4 |

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| 7.RP.A.2 Recognize and represent proportional relationships between quantities.  7.SP.C.8c Design and use a simulation to generate frequencies for compound events. | Finish Investigation 4 Begin Investigation 5 |
| 7.SP.C.7 Develop a probability model to and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy  7.RP.A.3 Use proportional relationships to solve multistep ratio and percent problems | Investigation 5 and Unit Test |