***Geometry - Unit 7 Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***NOTE: You will conference with the teacher after you have completed your Pretest Analysis form and begin working on your pathway.***

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| **Graduation Competency -** The student uses a variety of data analysis and statistics strategies to analyze, develop and evaluate inferences based on data. |

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| **Performance Indicator**:  c. The student understands independence and conditional probability, using them to interpret data, and uses the rules of probability to compute probabilities of compound events in a uniform probability model. | **DOK 1**  **Learning Target**:  K1-I can read a Venn Diagram. (CP.1)  K2-I can describe subsets of events as intersections (or), unions (and), or complements of other events (not). (CP.1)  Activities:  1. Video & Notes on applications of probability sets. (Part 1) [(Link)](http://gwinnett.k12.ga.us/PhoenixHS/math/GSEhigh1006.html)  2. Take the Interactive Quiz [(Link)](http://gwinnett.k12.ga.us/PhoenixHS/math/grade10GSE/Unit06/Unit-06-01-Quiz/06-01-samplequiz.htm) **Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Learning Target**:  K3- I can determine the difference between theoretical, empirical, and subjective probability (CP.2)  K6-I can recall basic principles of probability (probability is between 0 and 1). (CP.2)  Activities:  1. Video & Notes on basic probability. (Part 2) [(Link)](http://gwinnett.k12.ga.us/PhoenixHS/math/GSEhigh1006.html)  2. Take the Interactive Quiz ([Link](http://gwinnett.k12.ga.us/PhoenixHS/math/grade10GSE/Unit06/Unit-06-02-Quiz/06-02-samplequiz.htm)) **Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**    **Learning Target**:  K8-I can determine the difference between independent and dependent events. (CP.2)  Activities:  1. Video & Notes on Independent & Dependent Prob. (Part 3) [(Link)](http://gwinnett.k12.ga.us/PhoenixHS/math/GSEhigh1006.html)  2. Take the Interactive Quiz ([Link](http://gwinnett.k12.ga.us/PhoenixHS/math/grade10GSE/Unit06/Unit-06-03-Quiz/06-03-samplequiz.htm)) **Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Learning Target**:  K9-I can understand the conditional probability of A given B a P(A and B/given B) (CP.3)  Activities:  1. Video & Notes on Conditional Probability. (Part 4) [(Link)](http://gwinnett.k12.ga.us/PhoenixHS/math/GSEhigh1006.html)  2. Take the Interactive Quiz ([Link](http://gwinnett.k12.ga.us/PhoenixHS/math/grade10GSE/Unit06/Unit-06-04-Quiz/06-04-samplequiz.htm)) **Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Learning Target**:  **Learning Target**:  K9-I can read a two-way frequency table. (CP.4)  Activities:  1. Video & Notes on Two-Way Tables. (Part 6)  2. Complete practice problems **Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **DOK 2**  **Learning Target**:  R1-I can use Venn Diagrams to determine the relationship between sets, events, or probabilities. (CP.1)  **Learning Target**:  R3-I can compare the probabilities of two events to determine if they are independent. (CP.2)  **Learning Target**:  R4-I can interpret independence of events in terms of conditional probability. (CP.3)  R5-I can recognize and explain the concepts of conditional probability and independence in everyday language and everyday situations. (CP.5)  R6- I can find the conditional probability of A|B as the fraction of B’s outcomes that also belong to A, and interpret the answer in context.(CP.6)  **Learning Target**:  R7-I can apply the Addition Rule, P(A or B) = P(A) + P(B) – P(A and B), and interpret the answers in context.(CP.7)  Activities:  1. Video & Notes on Mutually Exclusive Events. (Part 5) [(Link)](http://gwinnett.k12.ga.us/PhoenixHS/math/GSEhigh1006.html)  2. Take the Interactive Quiz ([Link](http://gwinnett.k12.ga.us/PhoenixHS/math/grade10GSE/Unit06/Unit-06-05-Quiz/06-05-samplequiz.htm)) **Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Learning Target**:  R8- I can compare probabilities using a frequency table. (CP.4) | **DOK 3**  **Learning Target**:  S1-I can use data to calculate probabilities of given events. (CP)  S2-I can perform operations to calculate the probabilities of compound events in a uniform probability model. (CP)  Activities:  1. Students will conduct a survey of their own creating a Venn diagram and identifying different types of probability outlined in the rubric and expectations.  (See project sheet & rubric)  **Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**  2. Complete Review Guide  3. Take Unit Test  **Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_** | **DOK 4**  REQUIRED of all students:  **Passion Projects** |