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Honors Math 2 Unit 6: Probability

Unit 6: Modeling with probability builds on the Math 1 knowledge of probability. Math 2 probability introduces the student to   
 calculations involving more complex probabilities.

In this unit, students will . . .

* Calculate basic probabilities
* Count outcomes using fundamental counting principle, combinations and permutations
* Create tree diagrams for applied scenarios
* Calculate conditional probabilities using two way frequency tables and tree diagrams
* Determine probabilities of independent and dependent events
* Determine probabilities of complements and mutually exclusive events

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| **Date** | **Day of Unit** | **Lesson** | **Assignment** |
| Tues 5/16 | 1 | UNIT 5 TEST  Self study:  Fundamental Counting Principle and Combinations/Permutations | Packet p. 1 and 2 |
| Wed  5/17 | 2 | Basic Probability | Packet p. 3 – 5 |
| Thurs 5/18 | 3 | Probability of Independent/Dependent Events  Tree Diagrams | Packet p. 6 and 7 |
| Fri  5/19 | 4 | Probability of NOT Events  Probability of Mutually Inclusive and Exclusive Events | Packet p. 8 and 9 |
| Mon 5/22 | 5 | Conditional Probability and Two Way Frequency Tables | Packet p. 10 and 11 |
| Tues 5/23 | 6 | Theoretical vs. Experimental Probability  Probability Review | Packet p. 12 and 13  Omit Problem #1 & 2 for now  Study for Quiz |
| Wed 5/24 | 7 | **Quiz 1 on Days 1-5** | Packet p. 14 and 15  Packet p. 16 and 17 |
| Thurs 5/25 | 8 | Review of Probability | Packet p. 18–19 even, p. 20-21 evens  Show your work! |
| Fri 5/26 | 12 | **Test** |  |
| Mon 5/29 |  | NO SCHOOL – MEMORIAL DAY |  |
| Tues 5/30 | 9 | Review of units 4 and 5 for ODM test |  |
| Wed 5/31 | 14 | **2nd quarter Mastery Test part 1** |  |
| Thurs 6/1 | 14 | **2nd quarter Mastery Test part 2** |  |
| Fri  6/2 | 15 | **Exam review** |  |
| GHHS Final exams on Mon 6/5 – Fri 6/9 | | | |

Unit 6 Homework Grade:

Quiz 1- take out big Venn diagram. Substitute with one with only 2 sets.

Quiz 1- take Permutation/Combination by hand out of Quiz 2 and put in Quiz 1.

Quiz 1 and 2- flip flop the permutation/combination sections. Put the scholarship questions on Quiz 2 and the circle/choose perm/comb on Quiz 1.

Day 2 or 3- 3 section Venn diagram… take out the word ONLY and adjust values of each section

Day 2 HW- add a 3 sectioned Venn Diagram problem at the end

Quiz 2- Add 3 section Venn Diagram from Quiz 1

Test – edit the Juan Short answer problem to try to get more specific and detailed answers – Walden made a suggestion for F16 on an ADJ file.