**Advanced Mathematical Decision Making**

**Unit 1: Analyzing Numerical Data**

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| **Day** | **Date** | **Topic** | **Assignment** |
| 1 | M  8/7 | Intro to class, Syllabus  Start - How do we estimate using large numbers? (Crowds) | Signed Syllabus  1.A Activity sheet 1 #1-3 |
| 2 | T  8/8 | How do we estimate using large numbers? (Crowds) | 1.A Activity sheet 1  #4-8 |
| 3 | W  8/9 | How do we estimate using large numbers? (Tennis Balls) | 1.A Activity sheet 2 |
| 4 | Th  8/10 | How do we estimate using large numbers? | 1.A Activity sheet 3 (license plates) |
| 5 | F  8/11 | How do we estimate using large numbers? | 1.A Activity sheet 3 (license plates) |
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| 6 | M  8/14 | How do we estimate using large numbers? | Lessons 1 & 2 Review/Quiz Review |
| 7 | T  8/15 | How do we estimate using large numbers? | Lessons 1 & 2 Review/Quiz Review |
| 8 | W  8/16 | **Quiz over section 1.A** | **Quiz** |
| 9 | Th  8/17 | How do we use Ratios | 1.B Activity sheet 4 |
| 10 | F  8/18 | How do we use ratios to solve problems? More Aspect Ratios | 1.B Activity sheet 4/ 1.B |
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| 11 | M  8/21 | Aspect Ratios in the Media | 1.B Activity Sheet 4 Homework |
| 12 | T  8/22 | Aspect Ratios in the Media | 1.B Activity Sheet 4 Extension |
| 13 | W  8/23 | How do we use ratios to solve problems? | 1.B Activity Sheet 5 (Tires) |
| 14 | Th  8/24 | How do we use ratios to solve problems? | 1.B Activity Sheet 5 (Tires) |
| **15** | **F**  **8/25** | ***Ratios Project*** | ***Real Life Application*** |
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| **16** | **M**  **8/28** | ***Ratios Project*** | ***Real Life Application*** |
| 17 | T  8/29 | Review for Unit 1.A and 1.B Test | Study! |
| *18* | *W*  *8/30*  ***tentative device rollout*** | Fun Task |  |
|  | **Th**  **8/31** | **PD Day – No School** |  |
|  | **F**  **9/1** | **PD Day – No School** |  |
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|  | **M**  **9/4** | **Happy Labor Day!!**  **No School ☺** |  |
| 20 | T  9/5 | Review for Unit 1.A and 1.B Test | Study! |
| **21** | **W**  **9/6** | **Unit 1 A and B Test** |  |
| 22 | Th  9/7 | How do we calculate weighted Averages?  Graded TOTD – Weighted Averages | 1.C. Activity Sheet 6 |
| 23 | F  9/8 | Slugging Averages (Weighted Sums)– What are they and how are they useful? | Spin off of Activity Sheet 7 |
|  | | | |  | **Unit 1.A and 1.B Test** | No Homework! |
| 24 | M  9/11 | QB Ratings (Weighted Sums)– What are they and how are they useful? | Spin off Activity sheet 8  (QB ratings) |
| 25 | T  9/12 | Fan Cost Index - How do we calculate weighted sums and averages? | Spin off Activity sheet 9 (ATL United vs. Braves)  (Fan Cost Index) |
| 26 | W  9/13 | Fan Cost Index – Average Rate of Change compared to Inflation Rates | Spin off Activity sheet 9 (ATL United vs. Braves)  (Fan Cost Index) |
| 27 | Th  9/14 | Coding and Shopping – How do we validate id numbers using check digits? (UPC Codes) | 1.D Activity sheet 12 and Real Life Application |
| 28 | F  9/15 | How do we validate id numbers using check digits? (credit cards) | 1.D Activity sheet 13  and Real Life Application (Credit Card Apps) |
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| 29 | M  9/18 | Review 1.C and 1.D | Study! |
| 30 | T  9/19 | Review 1.C and 1.D | Study! |
| 31 | W  9/20 | **Unit 1.C and 1.D Test** |  |
| 32 | T  9/21 | Introduce Fermi Project and Pick Topic |  |
| 33 | F  9/22 | Fermi Project Work Day |  |
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| 34 | M  9/25 | Fermi Project Work Day |  |
| 35 | T  9/26 | Fermi Project Work Day |  |
| 36 | W  9/27 | **Fermi Projects DUE – Start Presentations** |  |
| 37 | Th  9/28 | **Fermi Project Presentations** |  |
| 38 | F  9/29 | **Unit 1 Recovery/Re-teach/Make-up work Day** |  |