**Advanced Mathematical Decision Making**

**Unit 1: Analyzing Numerical Data**

|  |  |  |  |
| --- | --- | --- | --- |
| **Day** | **Date** | **Topic** | **Assignment** |
| 1 | M8/7 | Intro to class, SyllabusStart - How do we estimate using large numbers? (Crowds)  | Signed Syllabus1.A Activity sheet 1 #1-3 |
| 2 | T8/8 | How do we estimate using large numbers? (Crowds)  | 1.A Activity sheet 1#4-8 |
| 3 | W8/9 | How do we estimate using large numbers? (Tennis Balls) | 1.A Activity sheet 2 |
| 4 | Th8/10 | How do we estimate using large numbers? | 1.A Activity sheet 3 (license plates) |
| 5 | F8/11 | How do we estimate using large numbers? | 1.A Activity sheet 3 (license plates) |
|  |
| 6 | M8/14 | How do we estimate using large numbers?  | Lessons 1 & 2 Review/Quiz Review |
| 7 | T8/15 | How do we estimate using large numbers?  | Lessons 1 & 2 Review/Quiz Review |
| 8 | W8/16 | **Quiz over section 1.A** | **Quiz** |
| 9 | Th8/17 | How do we use Ratios | 1.B Activity sheet 4  |
| 10 | F8/18 | How do we use ratios to solve problems? More Aspect Ratios | 1.B Activity sheet 4/ 1.B  |
|  |  |  |  |
| 11 | M8/21 | Aspect Ratios in the Media | 1.B Activity Sheet 4 Homework |
| 12 | T8/22 | Aspect Ratios in the Media | 1.B Activity Sheet 4 Extension |
| 13 | W8/23 | How do we use ratios to solve problems? | 1.B Activity Sheet 5 (Tires) |
| 14 | Th8/24 | How do we use ratios to solve problems? | 1.B Activity Sheet 5 (Tires) |
| **15** | **F****8/25** | ***Ratios Project*** | ***Real Life Application*** |
|  |
| **16** | **M****8/28** | ***Ratios Project*** | ***Real Life Application*** |
| 17 | T8/29 | 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**  |  |
|  |
|  | **M****9/4** | **Happy Labor Day!!****No School ☺** |  |
| 20 | T9/5 | Review for Unit 1.A and 1.B Test | Study! |
| **21** | **W****9/6** | **Unit 1 A and B Test** |  |
| 22 | Th9/7 | How do we calculate weighted Averages?Graded TOTD – Weighted Averages  | 1.C. Activity Sheet 6 |
| 23 | F9/8 | 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 | M9/11 | QB Ratings (Weighted Sums)– What are they and how are they useful? | Spin off Activity sheet 8 (QB ratings) |
| 25 | T9/12 | Fan Cost Index - How do we calculate weighted sums and averages? | Spin off Activity sheet 9 (ATL United vs. Braves)(Fan Cost Index) |
| 26 | W9/13 | Fan Cost Index – Average Rate of Change compared to Inflation Rates | Spin off Activity sheet 9 (ATL United vs. Braves)(Fan Cost Index) |
| 27 | Th9/14 | Coding and Shopping – How do we validate id numbers using check digits? (UPC Codes) | 1.D Activity sheet 12 and Real Life Application |
| 28 | F9/15 | How do we validate id numbers using check digits? (credit cards) | 1.D Activity sheet 13and Real Life Application (Credit Card Apps) |
|  |
| 29 | M9/18 | Review 1.C and 1.D | Study! |
| 30 | T9/19 | Review 1.C and 1.D | Study! |
| 31 | W9/20 | **Unit 1.C and 1.D Test** |  |
| 32 | T9/21 | Introduce Fermi Project and Pick Topic |  |
| 33 | F9/22 | Fermi Project Work Day |  |
|  |
| 34 | M9/25 | Fermi Project Work Day |  |
| 35 | T9/26 | Fermi Project Work Day |  |
| 36 | W9/27 | **Fermi Projects DUE – Start Presentations** |  |
| 37 | Th9/28 | **Fermi Project Presentations** |  |
| 38 | F9/29 | **Unit 1 Recovery/Re-teach/Make-up work Day** |  |