# IB AI SL Seniors
## Coach Appel
## 2021-2022
## 1st 9 Weeks

| 8/09 Introduction/ 6A Quadratic Functions | 8/10 6B Graphs from a Table of Values | 8/11 6C Axes Intercepts 6D $y = ax^2$ | 8/12 6E Graphs of Quadratic Functions | 8/13 6F Axis of Symmetry 6G Vertex |
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| 8/16 6H Finding a Quadratic from its graph | 8/17 6I Intersection of Graphs | 8/18 6J Quadratic Models | 8/19 Review | 8/20 Chapter 6 Test |
| 8/23 7A Direct Variation | 8/24 7B Powers in Direct Variation | 8/25 7C Inverse Variation | 8/26 7D Powers in Inverse Variation | 8/27 7E Determining the Variation Model |
| 8/30 7F Using Technology to find Variation Models | 8/31 Review | 9/01 Chapter 7 Test | 9/02 8B Graphing Exponential Functions from a Table | 9/03 8A Exponential Functions |
| 9/06 Labor Day | 9/07 8C Graphs of Exponential Functions | 9/08 8D Exponential Equations 8E Growth and Decay | 9/09 8E Continued. E.1 | 9/10 8E Continued E.2 |
| 9/13 8F The Natural Exponential | 9/14 Chapter 8 Quiz | 9/15 8G Logarithms base 10 | 9/16 8G Continued | 9/17 8H Natural Logarithms |
| 9/20 8H Continued | 9/21 Review | 9/22 Chapter 8 Test | 9/23 9A The Unit Circle | 9/24 9A Continued |
| 9/27 9B Periodic Behavior | 9/28 9C The Sine and Cosine Functions | 9/29 9D General Sine and Cosine Functions | 9/30 9D Continued | 10/01 9D Continued |
| 10/04 9E Modeling Periodic Behavior | 10/05 9E Continued | 10/06 Review | 10/07 Review | 10/08 Chapter 9 Test End of Q1 |