**Math 1B**

**Unit 4 : Exponential Functions**

**Why is it important to be able to recognize the difference between**

**linear and exponential functions?**

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| Day | Date | Topic | Classwork |
| 1 | Weds.  1/25 | Adding Polynomials (Adding Like Terms) | Review of Adding Like Terms |
| 2 | Thurs.  1/26 | Subtracting Polynomials  (Adding and Subtracting Like Terms) | Guided Notes Subtracting Polynomials  Practice Adding and Subtracting Polynomials |
| 3 | Fri.  1/27 | Multiplying Polynomials | Guided Notes on Multiplying Polynomials (Adding the exponents) |
| 4 | Mon.  1/30 | Multiplying Polynomials | Practice Multiplying Polynomials  Review |
| 5 | Tues  1/31 | **QUIZ #1 – Unit 4**  Dividing Polynomials | Quiz #1  Guided Notes on Dividing Polynomials |
| 6 | Weds.  2/1 | Dividing Polynomials | Practice Dividing Polyomials |
| 7 | Thurs.  2/2 | Raising a Power to a Power | Guided Notes on Raising a Power to a Power |
| 8 | Fri.  2/3 | Raising a Power to a Power  Negative Exponents | Practice Raising a Power to a Power  Guided Notes on Negative Exponents |
| 9 | Mon.  2/6 | Negative Exponents  Review of all Exponents | Review all exponent rules |
| 10 | Tues.  2/7 | **Unit 4 Test – Part 1**  Exponent Rules | Unit 4 Test – Part 1 |
| 11 | Weds.  2/8 | Introduction to Exponential Models | Introduce exponential models  Review Unit 4 Part 1 Test |
| 12 | Thurs.  2/9 | Growing vs. Declining Sequences | Guided notes on growing vs. declining sequences (arithmetic vs. geometric) |
| 13 | Fri.  2/10 | **EARLY RELEASE**  Growing vs. Declining Sequences | Practice on growing vs. declining sequences (arithmetic vs. geometric) |
| 14 | Mon.  2/13 | Recursive Geometric Formulas | Guided notes on recursive geometric formulas |
| 15 | Tues.  2/14 | **Quiz #2 – Unit 4**  Recursive Geometric Formulas | Practice recursive geometric formulas |
| 16 | Weds.  2/15 | Linear vs. Exponential Models | Guided notes linear vs. exponential models (graphs) |
| 17 | Thurs.  2/16 | Linear vs. Exponential Models | Guided notes linear vs. exponential models (tables) |
| 18 | Fri.  2/17 | Linear vs. Exponential Models | Practice linear vs. exponential |
| 19 | Mon.  2/20 | Compound Interest | Guided notes on compound interest |
| 20 | Tues.  2/21 | **Benchmark #1 – Unit 4 Parts 1 and 2**  Other Exponential Models | Benchmark |
| 21 | Weds.  2/22 | Compound Interest | Review the Benchmark  Practice compound interest |
| 22 | Thurs.  2/23 | Compound Interest | Practice compound interest |
| 23 | Fri.  2/24 | Half - Life | Guided notes on half-life |
| 24 | Mon.  2/27 | Half - Life | Practice on half-life |
| 25 | Tues.  2/28 | **Quiz #3– Unit 4**  Exponential Growth Modeling | Guided notes on exponential growth models |
| 26 | Wed.  3/1 | Expontial Growth Modeling  Writing Explicit Equations | Practice on exponential growth models |
| 27 | Thurs.  3/2 | Exponential Decay Modeling  Writing Explicit Equatiosn | Guided notes on exponential decay models |
| 28 | Fri.  3/3 | Exponential Decay Modeling  Writing Explicity Equations | Practice on exponential decay models |
| 29 | Mon.  3/6 | Exponential Modeling  Review of Unit 4 | Review Exponential Functions |
| 30 | Tues.  3/7 | **Test – Unit 4 Part 3 (Cumulative)** | Cumulative Unit 4 Test |
| 31 | Wed.  3/8 | Review Most Missed Problems  Review Unit 1 – Linear Equations | Review unit 1 |
| 32 | Thurs.  3/9 | Review Unit 2 – Linear Functions | Review unit 2 |
| 33 | Fri.  3/10 | Review Unit 3 – Systems of Equations and Inequalities | Review unit 3 |

Tutorials: Tuesday – Lunch B and Thursday – Lunch A