# Math 70: Overview of first 5 weeks - Bittinger

Do not use this overview as a class calendar. Use the class calendar in your syllabus.

#### Lesson 1: Introductions

3 things I want you to know: 1. Cell phones, 2. Test yourself, 3. Math placement results Questionnaire Syllabus Syllabus Search Textbook overview Try It GC requirement GC expectations

#### Lesson 2: 2.4 & 2.5 Review Percent problem types, Formulas, Review Perimeter, Area, Volume

No PQ Phrases (2 sided) Geometry formulas Example handout

Lesson 3: 1.8 & 5.2 Order of Operations, Exponent & Scientific Notation review, GC

No PQ 1.8 & 5.2 Order of Operations & Scientific Notation GC 1, 2, 3, 4, 6 GC 5 (editing, optional for now) All-in-one GC problem No GC essay, if applicable (Syllabus Search due – 2x/week)

#### Lesson 4: 2.3 Formulas & Tables, Solving a formula for a variable, Compound Interest

Checklist PQ Compound Interest GC 10 Tables GC 9 if time permits – Tables, review of percent increase & decrease (spiral of lesson 2) GC 11 (editing using compound interest formula as example)

## Lesson 5: 3.1, 3.2 & 3.3 Graphing, Scale & Axes, Equations & Intercepts

- PQ 2.4 & 2.5
- GC 12 Scale, Quadrants & Axis placement
- GC 13 Graphing on paper
- GC 14 Graphing Absolute Value Equations on paper
- GC 15 Settings & Basic Graph

GC 16 Linear vs. Nonlinear

GC 17 Changing the window

## Lesson 6: 3.4 & 3.5 Rates and Slope

PQ 1.8 & 5.2 Units/dimensional analysis handout GC 8 Units analysis[ GC 7 (roundoff error, approximations) GC 18 Cursor, Trace, Value, Zoom Integer

## Lesson 7: 3.6 & 3.7 Lines

PQ 2.3 3.6 objectives & examples Graphing linear equations GC 19 Windows for applications GC 20 Graphing more than one function Write linear functions -- yes, we get this before we do function notation in 3.8 ☺

# Lesson 8: 3.8-1st Function notation, Domain & Range

PQ 3.1, 3.2, & 3.3

# Lesson 9: 3.8-2<sup>nd</sup> Piecewise Functions

PQ 3.4 & 3.5 GC 21 Piecewise functions on GC Exam instructions Exam #1 topics list Exam #1 Selected Review Problems Review date, time, location.

# Lesson 10: 4.1, 4.2, 4.3 2x2 Systems

PQ 3.6 & 3.7

GC 22 Solving equations using intersection of graphs

# Lesson 11: 9.3 & 9.1 Systems by Matrices, 3x3 Systems

## PQ 3.8-1st

GC 24 Solving Systems of Linear Equations with Matrices

# Lesson 12: 4.4 System word problems

PQ 3.8-2nd

Lesson 13: EXAM #1 (chapters 1-2-3)

Lesson 14: 9.2 & 4.5 PQ 4.1, 4.2, 4.3 9.3-1st GC 23 Solving Equations using x-intercept method

Lesson 15: 5.5 & 5.6

PQ 9.3-2<sup>nd</sup> & 9.1 Handout

# Lesson 16: 5.8

PQ 4.4

### Lesson 17: 5.9, 6.1 & 6.2

PQ 49.2 & 4.5 Handout 5.9 Handout 6.1 & 6.2

## Lesson 18: 6.3, 6.4 & 6.5

PQ 5.5, and 5.6 Handout 6.3, 6.4 & 6.5

## Lesson 19: 6.6

PQ 5.8 Handout 6.6

#### Lesson 20: 6.7

PQ 5.9, 6.1, & 6.2 Handout 6.7