

Math 145 Class Meeting Schedule for 3 day a week class (48 meetings)

1. Introduction, Diagnostic and Surfing the book. Note well page 718. Read stories 1, 3, 5 before Friday
2. 1.1 and 1.2 Stories 1, 3, 5. (Computers) Read stories 4, 7, 8 before Monday
3. 1.1 and 1.2 Stories 4, 7, 8 (computers)
4. 1.4 The Solutions/introduction to Keep Tool Kit/in class writing
[For extra assistance with Keep Tool Kit view the two pod-casts in I-tunes U]
5. 2.1 Counting
[Suggested HBA activity: with your study group listen to and discuss JOT lectures 2,3,4,5 – the *Joy of Thinking* DVDs are available in the MRC and in the CSM Library]
6. 2.1 Counting continued **A1 due**
7. 2.2 Numerical Patterns in Nature - Observations collected
8. 2.2 continued - Fibonacci and Phi (PW) **Bring rough draft of essay 1 to class.**
[For assistance with typing equations view the equation editor pod-casts in I-tunes U]
Your rough draft is 10% of your essay grade. It must be a complete essay, typed, double spaced. No late drafts accepted.
9. 2.3 Prime Cuts of Numbers **A2 and A3 due**
10. 2.3 continued
11. 2.6 Irrational Side of Numbers
12. 2.6 continued **A4 due**
13. 2.7 Get Real
14. Homework questions, Tool kit work A5 due, **Final draft of Essay 1 Due**
15. 3.1 Beyond Numbers - one-to-one - intro to conundrum
16. **Test1 HBA log due**
17. 3.2 Comparing the Infinite
18. 3.3 The Missing Number - Cantor's Theorem
19. 3.4 Stratosphere of Infinities - Cantor Sets **A6 due**
20. 3.5 Straightening the Circle
21. 3.5 cont. Proof by contradiction
22. 4.1 Pythagorean Theorem/handout **A7 due**
[Suggested HBA activity: with your study group listen to and discuss JOT lectures 6,7,8,9,10 – the *Joy of Thinking* DVDs are available in the MRC and in the CSM Library]
23. 4.3 The Sexiest Rectangle (Golden)
24. 4.5 Platonic Solids (DVD) + observing closely and quantifying; building a table of data
25. 4.7 Intro - 1st dimension from 2nd dimension (JOT lecture 11) (DVD) followed by (Partner work) **A8 due**
26. 4.7 4Th Dimension (JOT lecture 12) (DVD)
27. Homework questions and essay discussion, **bring draft of essay to class**
Recall: Your rough draft is 10% of your essay grade. It must be a complete essay, typed, double spaced. No late drafts accepted.
28. 5.1 Rubber Sheet Geometry - intro and pw with station rotation
29. 5.2 the Band the Wouldn't Stop (bring scissors to class) **A9 due**
30. **Test 2 HBA log due Final draft of essay 2 due** level of work on out-of-class essay 1 and 2 will determine if draft is required on 3rd essay
31. 5.3 Feeling Edgy **A10 due**
32. 5.3 cont
33. 6.1 Images - Partner Worksheet, bring Text Instructions for Final Project Distributed
[Suggested HBA activity: with your study group listen to and discuss JOT lectures 15, 17, 18 – the *Joy of Thinking* DVDs are available in the MRC and in the CSM Library]
34. Changing Dynamics-Game of Life (Computers)
35. 6.2 cont
36. 6.3 Fractals intro **Final Project Title and Group Names due**
37. 6.3 Fractals (computers) **A11 due**
38. 6.5 Predetermined Chaos
39. 7.1 Chance Surprises
[Suggested HBA activity: with your study group listen to and discuss JOT lectures 19, 20, 23 – the *Joy of Thinking* DVDs are available in the MRC and in the CSM Library]
40. 7.2 Predicting the Future...
41. 7.2 Predicting the Future ...
42. 7.3 Random thoughts
43. 7.4 Down for the Count **A 12 and 13 due**
44. 7.5 Collecting Data (JOT Lecture 21)
45. Draft of out-of-class Essay 3 (essay by appointment in writing center if assigned must be completed)
Recall: Your rough draft is 10% of your essay grade. It must be a complete essay, typed, double spaced. No late drafts accepted.
46. Homework questions and toolkit work. **Essay 3 due**
47. **Test 3 HBA log due**
48. Final Project work day – **Keep Tool Kit must be completed.**