

Growing, Growing, Growing -- Unit Planning Overview 8th Grade

Investigations & Assessments	Days	Materials for Students	Transparencies	ACE Questions	Miscellaneous
1. Exponential Growth <i>Read TE p. 16 a-i</i>	4	8 ½ x11 sheets of scrap paper Scissors (1/group) Copies of labsheet 1.2 (1/group) Counters like chips or pennies (about 65/group) Large newsprint to make large graphs	1.1-1.3 Transparency of labsheet 1.2	1.1: #4-9, 12 1.2: #1-3, 10, 13 1.3: #11, 14-16	Graphing Calculators Blank overhead transparencies
2. Growth Patterns <i>Read TE p. 30 a-g</i>	4	Materials for growing mold (see the launch section of Problem 2.3) Moldy bread (see page 16j)	2.1-2.3	2.1: #2-4, 14 2.1: #1, 5-9, 15, 16	Graphing calculators
Check-Up	1	Copies of pages 65-66 Answers on pages 80-81			Graphing Calculators
3. Growth Factors <i>Read TE p. 44 a-g</i>	4		3.1-3.3B	3.1: #1, 2, 15, 16, 18 3.2: #3-8 3.3: #9-14, 17	Graphing Calculators
Quiz	1	Copies of p. 67-68 Answers on p. 81-82			Graphing Calculators
4. Exponential Decay <i>Read TE p. 60 a-o</i>	6	Quarter-inch grid papers (get from math team stock or see p. 117) Very hot water Cups to hold hot water Thermometers Watch or clock	4.1 – 4.4C	4.1: #1, 6, 8 4.2: #2, 4, 9 4.3: #3, 5 4.4: #7, 10	Quarter-inch grid paper is needed for several ACE problems. Graphing Calculators
Self-Assessment	Take Home	Copies of p. 79			
Unit Test	1	Copies of p. 74-77 Answers on p. 85-87			Graphing Calculator
Unit Project (optional)	1-2	Copies of p. 61-62 Guide on p. 92			Graphing Calculator