

Filling and Wrapping -- Unit Planning Overview 7th Grade

Investigations & Assessments	Days	Materials for Students	Materials for Teachers	Transparencies	ACE Questions	Copies for Students	Miscellaneous
1. Building Boxes <i>Read TE p. 14 a-i</i>	3	Inch & centimeter grid paper, metric rulers, scissors, transparent tape, Assorted rectangular boxes & flat patterns that can be folded into boxes Cm cubes (15-20 per pair) In. cubes (1/student)	Assorted rectangular boxes and flat patterns that can be folded into boxes	1.1 to 1.4, p.111-116	1.1: #2-5, 8, 9, 11-16 1.2: #2-5, 8, 9, 11-16 1.3: #10, 19 1.4: #6, 7, 17, 18	Notebook Checklist, p.88 Labsheet 1.4, p.108 Labsheet 1.ACE, p.109	ACE 6.7 (use Labsheet 1.ACE)
2. Designing Packages <i>Read TE p. 23 a-f</i>	2	Calculators Cm cubes or other unit cubes (30/group)	Overhead of 2.1 answer	2.1 and 2.2, p.117-118	2.1: #1-7 2.2: #8, 9, 11-13		ACE 10 as part of Prob. 2.1 lesson
3. Finding Volumes of Boxes <i>Read TE p. 36 a-f</i>	3	Calculators Cm cubes (optional) Small cardboard boxes Transparent tape Metric rulers, Plain paper	Overhead of isometric dot paper Examples of various prism shapes (opt.) Small items for filling prisms (i.e. rice)	3.1 to 3.3, p.119-121	3.1: #1-8, 13 3.2: #9, 14, 16 3.3: #10-12, 18	Isometric dot paper, p.37	ACE 13, Isometric dot paper, demonstrate how to use it.
Check-Up 1	1					p. 77	
4. Cylinders <i>Read TE p. 45 a-h</i>	4	Calculators Cm grid paper, Plain paper, Scissors, Transparent tape, metric rulers	Cylinders and a rectangular prism, small items for filling Cylindrical tennis ball container & string (opt.)	4.1 to 4.3, p. 122-124 transparent cm grid transparency of Labsheet 4.2, p.110	4.1: #10-11 4.2: #1-4, 6 4.3: #5, 7-9, 9-11	Cm grid paper, p.134-135	
5. Cones and Spheres <i>Read TE 56 a-f</i>	3	Calculators Modeling dough (Play-Doh recommended easier to use) 6-9 cm strips of transparency film, transparent tape, metric ruler, scissors plain paper, sand or rice	Assorted spheres, cones, cylinders (some with same height and radius) Cylindrical tennis ball container with 3 balls	5.1 to 5.3, p.125-127	5.2: #1-4, 8, 12 5.3: #5-7, 9-11		
Check-up 2	1					p.78-79	
6. Scaling Boxes <i>Read TE p. 67 a-g</i>	3	Calculators Cm cubes, Scissors Transparent tape	Demonstration compost boxes (real or scale models; optional)	6.1 to 6.3, p. 128-130	6.1: #6, 9, 10 6.2: #1, 3-5, 7, 11 6.3: #2, 8, 12-22	Cm grid paper, p. 134-135	
Quiz	1					p. 80-82	
7. Finding Volumes of Irregular Objects <i>Read TE p. 72 a</i>	1	Calculators Clear plastic containers marked in millimeters Metric rulers, Cm cubes, Stones & other irregularly shaped objects, water Clay spheres from Inv. 5	Transparent 2-quart measuring container and a stick of butter (optional)	7.1, p.131	7.1: #1-7		
Self-Assessment	Take Home					p. 89	
Unit Test	1					p.85-86	Guide to the unit test p.93-96