

MATH 10 GMF

INDEPENDENT STUDY (UNIT 3 MEASUREMENT)

- Chapter 4 Systems of Measurement and Conversions
- Chapter 6 Surface Area, Volume, and Capacity

Name: _____

Period: _____

Over the next two weeks, you will review/refresh surface area and volume formulas for a **cube, rectangular prism, square/rectangular pyramid, cylinder, cone, and sphere**, and use them in practical application problems involving conversions. You will be given a formula sheet with this Independent Study outline. **Please keep this for reference for the entire study.**

EXPECTATIONS:

- You will bring both your workbook and textbook to class each day.
- You will work independently to understand and apply surface area and volume formulas.
- You will submit/show completed work to be checked for understanding before moving on to the next focus. I will initial the level for you once checked and agreed upon comprehension.
- You will hand in your study plan before the test for evaluation on what was completed.
- The test on Conversions, Surface Area, Volume, and Capacity will be on Monday, Jan 13th (subject to change). Thus, you will want to try to follow the outlined timelines as closely as possible.
- Please do all work in pencil and be prepared to correct your misunderstandings and mistakes.

TIMELINE: Dec 16th – Jan 13th (WB = Workbook, TB = Textbook)

Date to Complete	Focus	Examples to Study	Independent Work	Teacher Initials
Dec 16 th	Linear Perimeter & Area Section 3.1 – Page 118	WB : Pg 119 Ex 1 Pg 122 Ex 2 Pg 124 Ex 3 Pg 127 Ex 4	Worksheet : Converting distances	
			WB : Pg 121 Q 4,5,6 TB : Pg 150 Q1,6-8	
Dec 16 th	Linear Conversions Section 3.2 – Page 131	WB : Pg 131 Ex 1 Pg 133 Ex 2 Pg 136 Ex 3	Worksheet: Surface Area of 2D Figures WB : Pg 134 Q 4-6	
			TB : 159 Q 4,5,7	
Dec 17 th	Surface Area of Cubes and Rectangular Prisms Section 3.3 – Page 142 & 6.1 – Page 124	WB: Pg 142 Ex 1(CH3), Pg 139 Ex 6 (CH6), Pg 143 Ex 7 (CH6)	Worksheet: Surface Area of 3D Figures WB: Pg 145 Q1-3 (CH3) WB: Pg 145 Q 11 (CH6)	
			TB: Pg 232-234 Q 1, 6 (1–bottom page)	
Dec 18 th	Volume of Cubes and Rectangular Prisms Section 3.4 – Page 158	WB: Pg 158 Ex 1	WB: Pgs 159, 162 Q 1, 3-5	
		TB: Pg 248 Ex 1, Pg 178 Ex 3	TB: Pg 182 Q 3, 5	

Dec 19 th	Surface Area of Cylinders Section 6.2 – Page 149 & Section 3.3 – Page 142	WB: Pg 152 Ex 2 (CH6), Pg 146 Ex 2(CH3)	WB: Pgs 147-148, 151 Q 4, 5, 8, (CH6) Pg 153 Q 4,5 (CH3)	
			TB: Pg 171 Q 1	
Dec 19 th /20 th	Volume vs Capacity Volume of Cylinders Section 6.3 – Page 170	WB: Pg 170 Notes, Pg 177 Ex 4	WB: Pg 178 Q 8-10	
		TB: Pg 249 Ex 2	TB: Pg 253 Q 3, 4	

Jan 6 th	Surface Area and Volume of Spheres	WB: Pg 163 Ex 7	WB: Pg 164 Q 18-20, Pgs 183-184 Q 1, 2	
		TB: Pg 238 Ex 2, Pg 258 Ex 1, Pg 262 Ex 3		
Jan 7 th	Volume of Cones and Pyramids	WB: Pg 185 Ex 2, Pg 187 Ex 3, Pg 190 Ex 4	WB: Pgs 186-187 Q 3ab, 5, Pgs 188-189 Q 6ab, Pg 191 Q 7, 8	
		TB: Pg 259 Ex 2		
Jan 8 th	Surface Area of Cones and Pyramids	WB: Pg 154 Ex 3, Pg 156 Ex 4, Pg 160 Ex 5, Pg 161 Ex 6	WB: Pgs 155, 158, 161-163 Q 7, 10, 12-16	
Jan 9 th	Everyday Volume & Capacity Conversions	WB: Pg 163 Notes, Pg 164 Ex 3	WB: Pg 165 Q 7, 8	
		TB: Pg 177 Ex 1	TB: Pg 182 Q 1, 4	
Jan 10 th	Review of all of the Above Concepts	All above work!	Collect Review Sheets from Teacher	
Jan 13 th /Jan 14 th	Test on Conversions, Surface Area, & Volume	NA	Test!	NA