

MODULE -3 - Measurement , Volume and Surface Area

LESSON	TITLE	ASSIGNMENT	COMPLETED
1	Imperial Measures	Handout TEXTBOOK Section 1.1 pp 10 -11 #,s 9-12, 15- 17	
2	Metric and Imperial Conversions	Handout TEXTBOOK Section 1.2 pp 16 -18 #,s 2, 4, 5 ,9, 12,13	
3	Volume of Prisms and Pyramids	Handout TEXTBOOK Section 9.1 pp 370 # 11	
4	Surface Area of Prisms and Pyramids	Handout Textbook Section 9.2 pp 379 # 8	
5	Volume and Surface Area of Cylinders	Handout Textbook Section 9.3 pp 388 #,s 5, 9	
6	Volumes of Cones and Spheres	Handout Textbook Section 9.4 pp 396 # 6	

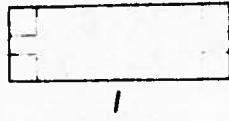
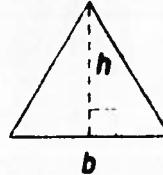
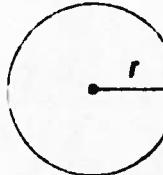
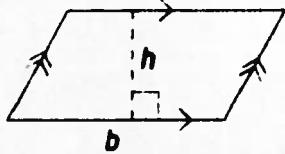
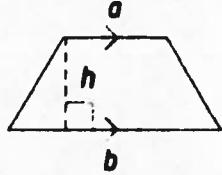
7	Surface Area and Volume Problems	Handout Textbook Section 9.5 Pp 402 # 1 pp 403 # 3	
6	REVIEW	Handout Textbook pp 408 #'s 1,2,5	

Formula Sheet

SHAPE	VOLUME	SURFACE AREA
PRISM	(Area of base)(height)	Sum of the area of all sides
PYRAMID	$\frac{(\text{Area of base})(\text{height})}{3}$	Sum of the area of all sides
CYLINDER	$\pi r^2 h$	$2\pi r^2 + 2\pi r h$
CONE	$\frac{\pi r^2 h}{3}$	$\pi r s + \pi r^2$
SLANT HEIGHT		$\sqrt{h^2 + r^2}$
SPHERE	$\frac{4\pi r^3}{3}$	$4\pi r^2$
Circle		πr^2
Triangle		$\frac{b \times h}{2}$

1 foot = 12 inches	1 cm = 10 mm	1 mile = 1.6 km
1 yard = 3 feet	1 m = 100 cm	1 inch = 2.5 cm
1 mile = 1760 yards	1 kilometer = 1000m	1 pound = 450 grams
1 pound (lb) = 16 oz	4 quarts = 3.79 Litres	1 kilogram = 2.2 lbs
1 ton = 2000 lbs	1 ounce(oz) = 29.57 ml	1 yard is about 1 meter
1 gallon = 4 quarts	1 pint = 473 ml	$C \text{ temp} \times 2 + 30 \doteq F \text{ temp}$
1 quart = 2 pints	1 quart = 946 ml	$F \text{ temp} - 30 \div 2 \doteq C \text{ temp}$
1 pint = 16 floz	1 gallon = 3.79 L	1 Litre = 1000 ml

Formula Sheet

Shape	Name	Area Formula
	rectangle	$A = lw$
	triangle	$A = \frac{1}{2}bh$
	circle	$A = \pi r^2$
	parallelogram	$A = bh$
	trapezoid	$A = \frac{1}{2}h(a + b)$

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CYLINDER	$\pi r^2 h$	$2\pi r^2 + 2\pi rh$
CONE	$\frac{\pi r^2 h}{3}$	$\pi rs + \pi r^2$
SLANT HEIGHT		$\sqrt{h^2 + r^2}$
SPHERE	$\frac{4\pi r^3}{3}$	$4\pi r^2$