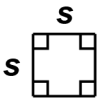
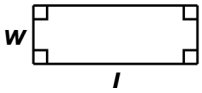
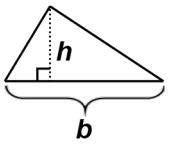
Maryland
STATE DEPARTMENT OF EDUCATION

MSTAR Mathematics – Grade 6 Reference Sheet

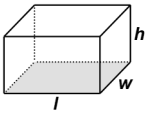
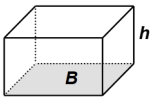
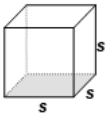
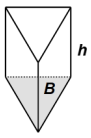
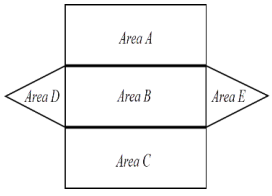
Division of Assessment and Accountability

Formulas

AREA (A)

Name	Shape	Formula
Square		$A = s^2$
Rectangle		$A = lw$
Triangle		$A = \frac{1}{2}bh$

VOLUME (V) AND SURFACE AREA (SA)

Name	Shape	Formula
Right Rectangular Prism	 	$V = lwh$ or $V = Bh$ $SA = 2lw + 2hl + 2hw$
Cube		$SA = 6s^2$
General Prism	 	$V = Bh$ SA = Sum of the areas of the faces $SA = A + B + C + D + E$

CONVERSIONS

1 mile = 5280 feet	1 cup = 8 fluid ounces
1 mile = 1760 yards	1 pint = 2 cups
1 mile = 1.609 kilometers	1 quart = 2 pints
1 kilometer = 0.62 mile	1 gallon = 4 quarts
1 pound = 16 ounces	1 gallon = 3.785 liters
1 pound = 0.454 kilograms	1 liter = 0.264 gallons
1 ton = 2000 pounds	1 meter = 39.37 inches
1 kilogram = 2.2 pounds	1 inch = 2.54 centimeters
	1 liter = 1000 cubic centimeters