



Name: _____

The task: This term students have been studying Economics as their integrated unit topic. To conclude their integrated unit, students turned themselves into mini entrepreneurs for their Mathematics project. Students had to create a toy using connectable blocks. Students then had to calculate the cost of their toy, create a box for it and were required to calculate the perimeter, area and volume of their box. Some of the elements in the continuum below have also been assessed in class.

Perimeter	Measures the perimeter by using informal measurements such as string or unifix blocks	Calculates the perimeter of rectangles by adding all the lengths or by adding 2 sides and multiplying by 2	Calculates the perimeter of composite shapes	Calculates the perimeter of polygons with different units of measurement		
Area	Uses grid paper to calculate the area of a shape	Uses /draws cm^2 to calculate the area of rectangles and squares	Understands and applies the formula for finding the area of rectangles and squares by using the formula (B x H)	Solves problems involving the comparison of areas of familiar objects using appropriate units	Investigates how to calculate the area of triangles and uses the formula in problem solving	Investigates how to calculate the area of parallelograms and uses the formula in problem solving
Volume	Compares the volume of objects using familiar units such as MAB blocks	With assistance, calculates the volume of regular prisms using $1 cm^3$ cubes	Uses $1 cm^3$ cubes to find the volume of rectangular prisms and counts every cube to find the total.	Measures volume by counting the layers of cube and by doing repeated addition.	Calculates volume of rectangular prisms using the formula (L x B x H)	
Angles	Identifies types angles in logo (acute, obtuse, right, straight)	Identifies and measures angles in their logo using a protractor	Identifies and calculates some angles in logo based on geometric reasoning.	Identifies and calculates all angles in logo based on geometric reasoning.		
Shape		With assistance, constructs 3D solids from a net.	Constructs a 3D solid by assembling the faces of the solid together.	Constructs 3D solids from a net.	Constructs two nets for the same 3D solid.	Constructs nets for composite 3D solids. (i.e: a house)

