Balanced Math Planning – Grade 8

Date: November 29, 2011 **Amount of Time**: 50-60 minutes

Strand: Measurement

Expectation: Measure the circumference, radius, and diameter of circular objects; Solve problems involving the estimation and calculation of the circumference of a circle

Big Idea: Knowledge of the size of benchmarks assists in measuring – how does one attribute and a constant affect the outcome?

Minds On	
Open Question	How many ways can you think of to find the circumference of a circle?
Action Balanced Math Centres	
SMARTboard	
Math Facts	Math Makes Sense – students have choice: p.123-124 – 6.1 Investigating Circles p.125-126 – 6.2 Circumference of a Circle * What do you need to practice? Choose one to complete. - have answer sheets available for self-checking
Math Games	Math Games for Grade 7 & 8 - Circumference game - Diameter game
Shared Problem Solving (2)	Your friends join you for a hike at Kandalore. There, you find a massive redwood tree. You are told you'll get extra credit in Math if you can figure out its diameter without cutting it down. One of your friends has an idea: if you can measure the circumference of the tree, you can figure out the radius, which helps you to find the diameter. If the tree's circumference is 100m, what is its diameter?
	Skeltoni's Pizzeria like to play math games with their customers, so they present you with two options: Option A – pizza with a radius of 10" for $13.95 Option B – pizza with a circumference of 72" for $13.95 Which pizza is the better buy? Why?
Guided Problem Solving	You buy a can of soup and decide to replace the label with your own. If the radius of the can is 4.5 cm, what is the length of the label? (Assume the label does not need to overlap after wrapping around the can)
Laptop Activities	Gizmos – Circle: Circumference and Area – Activity B – Perimeter, Circumference, and Area – Actiity A
Consolidation	

Consolidation: Gather as a class and have students share answers and methods of solving for shared questions; take up guided question

Journal: What happens to the circumference of a circle for each situation below? Use examples in your answer:
a) the radius is doubled
b) the diameter is doubled