**Balanced Math Planning – Grade 8**

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

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| * **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 | |