	Lesson Plan
Grade 9 Academic	Lesson: <u>24</u>
Unit/Chapter: <u>Linear Equations</u>	<b>Topic: <u>Solving for Variables in Equations</u></b>

**t** homework check: <u>NPM 9</u> p. 221 # 5 – 9, 11, 14, 21

## *note:* <u>Solving for Variables in Equations</u>

When solving for a specific variable in an equation, we continue to use inverse operations. The result is a new equation where one variable is represented in terms of another. For example, solve for the variable indicated.

a) 
$$3x - 2y + 7 = 0$$
, y  
 $3x - 2y + 7 + 2y = 0 + 2y$   
 $3x + 7 = 2y$   
 $\frac{3x + 7}{2} = \frac{2y}{2}$   
 $y = \frac{3x + 7}{2}$   
b)  $\frac{2C - 5}{3} = 3T + 1$ , C  
 $\frac{2C - 5}{3}(3) = 3(3T + 1)$   
 $2C - 5 = 9T + 3$   
 $2C - 5 + 5 = 9T + 3 + 5$   
 $2C = 9T + 8$   
 $\frac{2C}{2} = \frac{9T + 8}{2}$   
 $C = \frac{9T + 8}{2}$ 

**t** homework assignment: <u>NPM 9</u> p. 236 #4 – 7, 13