Academic/Career & Technical Related/Demor	Academic/Career & Technical Related/Demonstration Lesson Plan		
Instructor Jenny Piscsalko	Date	Blizzard Bag 2	
Program/Class <u>Tech Math</u>	Period	5,8	

State Indicator/Competency:

- Explain each step in solving a simple equation as following from the equality of number asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method.
- Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.
- Solve linear equations and inequalities in one variable, including equations with coefficients represented by letters.

Instructional Objective(s):

Students will be able to solve equations consisting of combined operations with 80% accuracy.

Materials:

- Pencil
- Blizzard Bag Packet 1
- Calculator

Method of Instruction:

Independent Student Led

Activities:

Students will complete the Blizzard bag assignment Example: Solve: 5x + 12 = 52 5x = 40 x = 8Example: Solve: -18D + 4D = 3D - 5D + 19 + 5 -14D = -2D + 24 -12D = 24 D = -2Example: Solve: 14y - 6(y - 3) = 22 14y - 6y + 18 = 22 8y = 4y = 0.5 Example: Solve: $\frac{x^2}{6} - 36.5 = -35$ $\frac{x^2}{6} = 1.5$ $x^2 = 9$ x = 3Example: Solve: $4 = \frac{130}{R+20}$ 4(R+20) = 130 4R + 80 = 130 4R = 50 R = 12.5Example: Solve: $6\sqrt[3]{P} = 4(\sqrt[3]{P} + 1.5)$ $6\sqrt[3]{P} = 4\sqrt[3]{P} + 6$ $2\sqrt[3]{P} = 6$ $\sqrt[3]{P} = 3$ P = 27

Assessment:

Multi-Step Equations Worksheet 10 pts.

Name:	Tech Math
Period:	
	Multi-Step Equations
1) $-20 = -4x - 6x$	2) $6 = 1 - 2n + 5$
3) $8x - 2 = -9 + 7x$	4) $a + 5 = -5a + 5$
5) $4m - 4 = 4m$	6) $p-1 = 5p + 3p - 8$
7) $5p - 14 = 8p + 4$	8) $p - 4 = -9 + p$
9) $-8 = -(x+4)$	10) $12 = -4(-6x - 3)$
11) $14 = -(p - 8)$	12) $-(7-4x) = 9$
13) $-18 - 6k = 6(1 + 3k)$	14) $5n + 34 = -2(1 - 7n)$
15) $2(4x-3) - 8 = 4 + 2x$	16) $3n - 5 = -8(6 + 5n)$
17) $-(1+7x) - 6(-7-x) = 36$	18) $-3(4x+3) + 4(6x+1) = 43$
19) $24a - 22 = -4(1 - 6a)$	20) $-5(1-5x) + 5(-8x-2) = -4x - 8x$