



PARKSIDE CHRISTIAN ACADEMY

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Weekly Sheet for MS-2 Pre-Algebra

Mr. Charlton

Week # 6 Dates: October 3, 2011 – October 7, 2011

Topics/Content/Skills:

Topic: Linear equations and Line of Best fit

Content:

This week, each student in the class will be given a 3 to 5 minute summary on their class project. Students will discuss what they have learned, some of the challenges they faced completing the project and finally complete a presentation of their work.

Skills: Students will be able to understand and use

- the concept of what is a linear equation.
- how to write an equation of a linear function when given a set of data.
- perform an experiment and create a scatter plot.
- graph lines of best fit and write the equations of lines of best fit.
- interpret the meaning of the slope and y-intercept and then use the equation to find other values of x and y.
- apply the concepts learned in class solve real world applications.

Vocabulary/Key Terms/Formulas:

Vocabulary:

1. Linear function:
2. X and Y intercept of a function:
3. Slope:
4. Correlation: A measure of the relationship between two variables.

5. Continuous: The representation of data for which no individual values other than a range between intervals can be established. Continuous data is usually associated with physical measurements such as growth.
6. Discrete: The representation of data for which one-to-one correspondence is established between individual points of data and the medium of representation. Discrete representations are often associated with countable objects such as populations.
7. Line of Best Fit: The line that most closely fits the bi-variate data.
8. Patterns: Regularities in situations such as those in nature, events, shapes, designs, and sets of numbers.
9. Scatter plot: A graph of plotted points that show the relationship between two sets of data.

Key Terms: Not this week.

Formula:

1. $y = mx + b$

Homework:

	<u>Lesson</u>	<u>Homework</u>
<u>Monday</u>	Class presentation of projects. Each student will be asked to give a brief summary of his or her project.	Students will: <ul style="list-style-type: none"> • No homework.
<u>Tuesday</u>	In class project.	Students will: <ul style="list-style-type: none"> • Complete will complete write-up of in class project. • http://www.pdesas.org/module/content/resources/13750/view.ashx
<u>Wednesday</u>	In class project presentation	Students will: <ul style="list-style-type: none"> • Complete assignment distributed in class.
<u>Thursday</u>	In class project presentation	Students will: <ul style="list-style-type: none"> • Complete take home assignment "Is there a connection between fat and high calorie foods?"
<u>Friday</u>	All School field trip	Students will: <ul style="list-style-type: none"> • Continue working on class assignment.

Tests:

NA

Special Events/News:

NA

Extra-ordinaries/Mastery Review Material:

1. Find the missing quantity in each of the following:
 - (a) What is 10% of 672.3 kg?
 - (b) 42 are what percent of 132.3 g?
 - (c) 18.7 g is .5% of what amount?

2. In 80.042 g (1 mole) of ammonium nitrate, there are 28.014 g of nitrogen; 47.997 g of oxygen and the rest is hydrogen.
 - (a) What percent of ammonium nitrate is nitrogen?
 - (b) What percent of ammonium nitrate is oxygen?
 - (c) What percent of ammonium nitrate is hydrogen?