Lesson Plan

Text: Financial Algebra by Robert Gerver and Richard Sgroi Unit number and title: Unit 1-3, Stock Market Data Charts

Developed by: David Sandefur

Date:

Short Description:

As students think of the numerous types of data displays they have studied, they will likely come to the conclusion that none are a good fit for stock market data. Thus there is a need to learn how to create and interpret a new type of data display.

LESSON PLAN

TEACHER: Teacher Prep/Lesson Plan

Essential Question

How can stock data be displayed?

Lesson Objectives

The student can:

- 1. Interpret a stock bar chart.
- 2. Create a stock bar chart.
- 3. Interpret a stock candlestick chart.
- 4. Create a candlestick chart.
- Statement of pre-requisite skills needed

Skills taught in:

- 1. Creating charts using Excel
- 2. Unit 1-1, Business Organizations
- 3. Unit 2-2, Stock Market Data

• New Vocabulary:

Stock Chart	Pictorial information on stocks from a day's worth of data to		
	multi-year data trends; most stock charts represent historical		
	information about trading prices and volumes of a particular stock		
Stock Bar Chart	A chart made up of two graphs; the top part shows daily		
	information about the day's high, low, open, and close prices of		
	that particular stock; the bottom part shows the daily volume		
Candlestick	A chart, like a stock chart, but with a top line line that indicates		
Chart	the high price, and a low line that indicates the low price for a		
	given period; the rectangular region, known as the real body, is		
	displayed in two different colors; the green candlestick indicates		
	that the closing price is greater than the opening price and the red		
	candlestick indicates the closing price is less than the opening		
	price		

• State Standards addressed:

Common Core Standards:

Number and Quantity – Quantities N-Q

- Set-up information (Remind students to follow these basic rules.)
- Be Prepared to work
- No Teasing
- Proper Computer Usage
- Teacher Assessment of student learning (scoring guide, rubric)
 Informal Assessments:
 - 1. Walk around
 - 2. Thumbs up or down
 - 3. Homework

Formal Assessments:

1. End of Unit test

• Summary of learning

- 1. Introduce the vocabulary to the students.
 - a. Give the vocabulary list without definitions
 - b. Give the definitions to the vocabulary list
 - c. Discussion about each term of the vocabulary
- 2. Ask: How can stock data be displayed?
 - a. Tables
 - b. Charts
 - i. Stock bar chart
 - ii. Candlestick chart
- 3. Work on Examples to Strengthen skills
 - a. Example 1, page 17
 - b. Example 2, page 17
 - c. Example 3, page 18
 - d. Example 4, page 19
 - e. Example 5, page 19
- 4. Check for Understanding
 - a. Check Your Understanding 1, page 17
 - b. Check Your Understanding 2, page 18
 - c. Check Your Understanding 3, page 18
 - d. Check Your Understanding 4, page 19
 - e. Check Your Understanding 5, page 19
- 5. Assess with Applications

REACHING ALL LEARNERS - Differentiated Instruction for students with

Developing Knowledge	On-level Knowledge	Advanced Knowledge
☐ Needs help working Example	☐ Able to work Example 1, page	☐ Able to create additional
1, page 17 (Group work)	17 without assistance	problems like Example 1,
P		page 17

	☐ Needs help working Example	☐ Able to work Example 2, page	☐ Able to create additional		
	2, page 18 (Group work)	18 without assistance	problems like Example 2,		
			page 18		
	☐ Needs help working Example	☐ Able to work Example 3, page	☐ Able to create additional		
	3, page 18 (Group work)	18 without assistance	problems like Example 3,		
			page 18		
	☐ Needs help working Example	☐ Able to work Example 4, page	Able to create additional		
V	4, page 19 (Group work)	19 without assistance	problems like Example 4,		
			page 19		
	☐ Needs help working Example	☐ Able to work Example 5, page	☐ Able to create additional		
	5, page 19 (Group work)	19 without assistance	problems like Example 5,		
			page 19		
		☐ Able to work the Check Your	☐ Able to work and explain the		
		Understanding problems,	Check Your Understanding		
		pages 17-19	problems, pages 17-19		
 Optional activities Hands-on Labs Career Applications Banker Stockbroker Investment Banker Venture Capitalist Economist 					
• Evaluation of Lesson Plan What went well?					
	What did not go as well as planned?				
	What would I keep and what would I toss? Why?				

How well did the students master the skills? Will we need to review this in order for them to remember the information long-term?

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