

Developing Student Excel Skills Using Teacher Websites, Screencasts, and Student Digital Portfolios

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Developing Student Excel Skills: Focus & Target

Focus/Promising Practice:

• Students utilize Teacher Websites, Screencasts, and Student Digital Portfolios to learn how to format cells, multiply and sum item costs, and produce complex graphs using Microsoft Excel.

Target: Students in 6th, 7th, and 8th grade technology class. Project design facilitated differentiation for all types of learners.

Partnership Alignment:

- AUSSIE ITC set up Google Site—platform for Teacher Website and Student Digital portfolios—and assisted in creating unit
- School-based team members developed Student Digital Portfolios in Tech class, maintained Teacher Pages, created unit and rubrics, created Screencast tutorials and took over management of school site, promoting sustainability
- MOUSE Squad and CUNY Intern supported student work by aiding in creation of student logins and offering technical assistance as needed.

Resources Needed: Technology Teacher, Google Sites, Computer Lab, Screencasting Tools

Unit Planning Template

Unit Planning Template



DIGITAL SCHOOL SOLUTIONS
Re-thinking Teaching & Learning

Unit Title: Microsoft Excel Dream Shopping Spree

Grade Level: 6th, 7th, and 8th grade

Project Overview

Students are told they have an unlimited amount of money. The objective is to create an inventory of items that they would buy in Microsoft Excel.

Goals and Objectives (By the end of the unit students will understand)

How to format cells in Excel, How to multiply in Excel, How to find the sum of multiple items in Excel.

Time Requirement (start and finish date, number of sessions)

Approximately 2 weeks

Essential Questions (What questions do we want students to think about as they go through the process of completing this project/unit?)

What is the best way to budget this money and buy the things they want.

Project Overview

1. **Teacher Website** presented Tech students with a two-part challenge:
 - a) What would you buy with unlimited funds in a “Dream Shopping Spree?”
 - b) How can you track and represent your purchases in Excel?
2. Students researched their purchases and learned how to use Excel by watching **Screencasts** at their own pace.
3. Students created Spreadsheets and Charts, published their work in their **Digital Portfolios**, and obtained teacher and peer feedback.

Teacher Website

Class Information

[Class Rules](#)
[Class Procedures](#)
[Grading Policy](#)
[B Bucks Matrix](#)

Class Resources

[Lessons](#)
[Getting Started](#)
[Homework](#)
[Technology Class](#)
[Weblinks](#)

Projects

[Microsoft Word Bio-Poem Rubric](#)
[PowerPoint Biography Rubric](#)
[Microsoft Excel Dream Shopping Spree Rubric](#)

School Resources

[Berta49.org](#)
[Berta Email](#)
[Berta Drive](#)
[Berta Sites](#)
[Berta Calendar](#)

Student Resources

[Common Core Standards](#)
[Teacher Websites](#)
[Power My Learning](#)
[Achieve 3000](#)
[NYC Social Media Guidelines](#)

Focus: How can we create a shopping spree inventory in Microsoft Excel?



Do Now: If you had one million dollars, what would you buy?

Teacher Website

- Launch area for entire project
- Collection of:
 - Assignments
 - Resources
 - Screencast tutorials
 - Examples
 - Rubrics
 - Student Digital Portfolio links

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Screencasts

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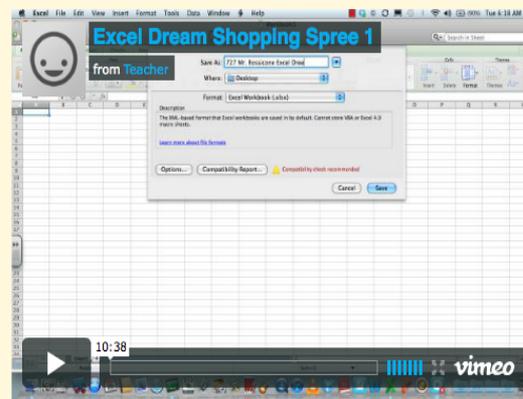
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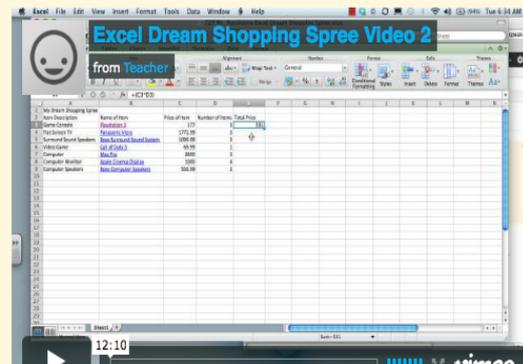
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Excel Shopping Spree Videos



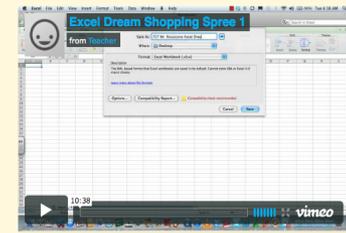
[Excel Dream Shopping Spree 1](#) from [Teacher](#) on [Vimeo](#).



Screencasts

- Step-by-step tutorials break lessons into discreet skills
- Students were able to review at their own pace and repeat as needed
- Created in advance, permitted teacher to meet with students during class time

Excel Shopping Spree Videos



Excel Dream Shopping Spree 1 from Teacher on Vimeo.



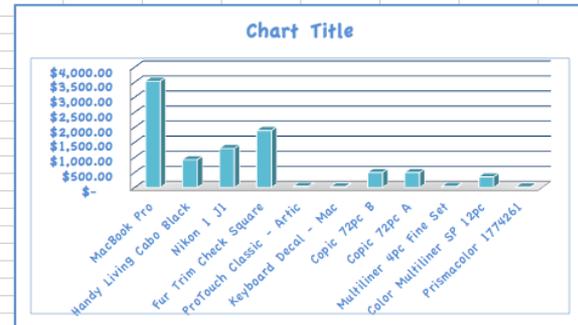
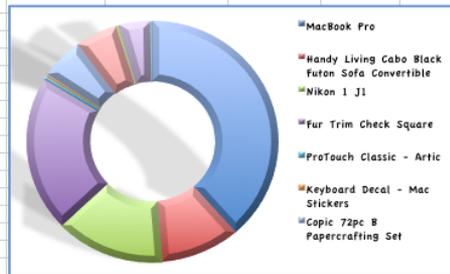
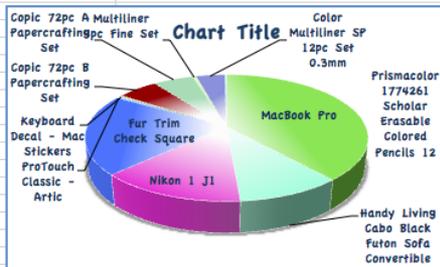
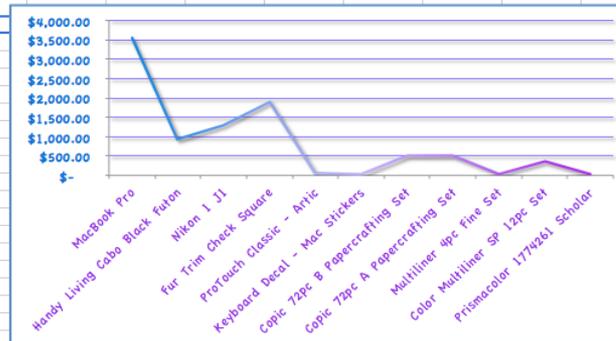
Examples of Student Work

Student work # 1

Microsoft Excel - My Dream Shopping Spree

My Dream Shopping Spree

Item Description	Name Of Item	Price Of Item	Number Of Items	Total Price
Computer Laptop	MacBook Pro	\$ 1,179.99	3	\$ 3,539.97
Furniture	Handy Living Cabo Black Futon Sofa Convertible	\$ 463.99	2	\$ 927.98
Camera	Nikon 1 J1	\$ 649.95	2	\$ 1,299.90
Women's Accessories	Fur Trim Check Square	\$ 950.00	2	\$ 1,900.00
Keyboard Cover	ProTouch Classic - Artic	\$ 24.99	2	\$ 49.98
Keyboard Stickers	Keyboard Decal - Mac Stickers	\$ 14.99	2	\$ 29.98
Markers	Copic 72pc B Papercrafting Set	\$ 503.25	1	\$ 503.25
Markers	Copic 72pc A Papercrafting Set	\$ 503.25	1	\$ 503.25
Pens	Multiliner 4pc Fine Set	\$ 13.96	3	\$ 41.88
Pens	Color Multiliner SP 12pc Set 0.3mm	\$ 119.40	3	\$ 358.20
Color Pencils	Prismacolor 1774261 Scholar Erasable Colored Pencils 12	\$ 11.00	2	\$ 22.00
Grand Sum				\$ 9,176.39



Examples of Student Work

Student work # 2

Justin P's Digital Portfolio

Search this site

Home

- Home
- Getting Started
- Microsoft Word Bio-Poem
- PowerPoint Biography
- Microsoft Excel My Dream Shopping Spree**
- Microsoft Excel Timeline
- Microsoft Word Climate vs. Weather T-Chart
- Microsoft Word Humans Are To Blame Worksheet

Home > PowerPoint Biography > Microsoft Excel Timeline > Microsoft Word Bio-Poem >

Microsoft Excel My Dream Shopping Spree

My Dream Shopping Spree

Item Description	Name of Item	Price of Item	Number of Items	Total Price
Bed	Baldachino Supreme	\$ 6,300,000.00	4	\$ 25,200,000.00
Plasma Screen TV	Beovision 4-103	\$ 140,000.00	3	\$ 420,000.00
Refrigerator	Sub-Zero PRO 48	\$ 13,800.00	2	\$ 27,600.00
Chair	The Dragon Chair	\$ 27,800,000.00	8	\$ 222,400,000.00
Microwave Oven	Panasonic Sonic Steamer Microwave	\$ 3,099.00	3	\$ 9,297.00
Game Console	Nintendo Wii U	\$ 399.00	3	\$ 1,197.00
Laptop Computer	Luvaglio	\$ 1,000,000.00	5	\$ 5,000,000.00
Car	Solid Gold Rolls Royce Phantom	\$ 8,200,000.00	2	\$ 16,400,000.00
Watch	Patek Philippe Rose Gold Watch	\$ 47,000.00	2	\$ 94,000.00
Yacht	The Dubai Yacht	\$ 350,000,000.00	2	\$ 700,000,000.00
Cell Phone	Goldstriker iPhone 3GS Supreme	\$ 3,200,000.00	2	\$ 6,400,000.00
Statue	Alberto Giacometti's Walking Man	\$ 104,300,000.00	2	\$ 208,600,000.00
Toilet	Hang Fung Gold Toilet	\$ 5,000,000.00	5	\$ 25,000,000.00
Motorcycle	Dodge Tomahawk V10 Superbike	\$ 555,000.00	3	\$ 1,665,000.00
Video Game	Ninja Gaiden 3: Razor's Edge	\$ 59.96	3	\$ 179.88
Grand Total				\$ 1,211,217,273.88

**By: Justin P.
Class: 810**

- Baldachino Supreme
- Beovision 4-103
- Sub-Zero PRO 48
- The Dragon Chair
- Panasonic Sonic Steamer Microwave
- Nintendo Wii U
- Luvaglio
- Solid Gold Rolls Royce Phantom
- Patek Philippe Rose Gold Watch
- The Dubai Yacht
- Goldstriker iPhone 3GS Supreme
- Alberto Giacometti's Walking Man
- Hang Fung Gold Toilet
- Dodge Tomahawk V10 Superbike

Total Prices

Sample Rubric Used to Evaluate Student Work

	Excellent 4 pts	Good 3 pts	Fair 2 pts	Poor 1 pts
Formulas	<p>Excellent</p> <p>The formulas were used wherever appropriate. There were no numbers typed in to do any calculations.</p>	<p>Good</p> <p>Most of the numbers that needed to be calculated were done by formulas.</p>	<p>Fair</p> <p>Some of the numbers that needed to be calculated were done by formulas.</p>	<p>Poor</p> <p>Only 1 or 2 of the numbers that needed to be calculated were done by formulas.</p>
Organization	<p>Excellent</p> <p>The spreadsheet is very organized and very easy to read.</p>	<p>Good</p> <p>The spreadsheet is a little difficult to read. Some of the data and the chart are scattered or cluttered.</p>	<p>Fair</p> <p>The spreadsheet appears to have some order. It can be read, but is very difficult.</p>	<p>Poor</p> <p>The spreadsheet is all over the place. The data is not organized and the graph does not accompany the data.</p>
Required Data	<p>Excellent</p> <p>All the information is present and it good form.</p>	<p>Good</p> <p>The spreadsheet is missing 1 or 2 items.</p>	<p>Fair</p> <p>The spreadsheet is missing 3 or 4 items.</p>	<p>Poor</p> <p>The spreadsheet is missing 5 or more items.</p>
Graph	<p>Excellent</p> <p>The graph is present and represents the data appropriately.</p>	<p>Good</p> <p>The graph is present and is in good form with data, but lacks a couple key figures.</p>	<p>Fair</p> <p>The graph is present, but does not represent the data.</p>	<p>Poor</p> <p>There is no graph.</p>
Formatting Requirements	<p>Excellent</p> <p>The graph has all the headings, column labels, number labels, and is easy to read.</p>	<p>Good</p> <p>The graph is missing one of the requirements</p>	<p>Fair</p> <p>The graph is missing 2 of the requirements.</p>	<p>Poor</p> <p>The graph is missing all the formatting requirements.</p>

Questions & Answers