

12 Days of 6th Grade

MSET Excel Project

Ruth Rudd

Eastern Christian High School
Media Specialist

As Media Center Specialist,
I work with teachers to help
them enhance their lessons
with technology.



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Our school uses Google
Spreadsheet for all
spreadsheet applications.



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This lesson will be used in a
6th grade math class to
introduce them to Google
Spreadsheet.

Lesson: The 12 Days of 6th Grade

using GoogleSpreadsheets



Standards

Department of NJ Core Curriculum Standard for Technology:

- Standard 8.1 Educational Technology - All students will use digital tools to access, manage, evaluate, and synthesize information in order to solve problems individually and collaboratively and to create and communicate knowledge.
- By the end of grade 8 Students should be able to: Plan and create a simple database, define fields, input data, and produce a report using sort and query (8.1.8.A.2). This activity is a lead-up to this standard.

Goals and Objectives

Students will be able to:

- Become familiar with Google Spreadsheet (GS) set up, naming, sharing, data input and use of simple formulas.
- Search for and evaluate appropriate data from the internet and enter it on a GS.
- Try to find the best prices for a list of items
- Synthesize data from rap song lyrics to enter it on the GS.
- Create formulas using the built-in formulas for sums.
- Create formulas using cell references to calculate the total cost of multiple items from the unit price.
- Use a pie chart to evaluate spending data.

What's it all about?

This lesson will take 3 - 40 minute class periods.

Scenario: Mr. H. has decided to buy the items in the **12 Days of 6th Grade Rap** for each student in his class. He has a \$3000 budget for each student, but the Principal has asked that he spend less than \$2000 per student if possible.

Check out the rap and the sample completed spreadsheet



The 12 Days of 6th Grade Rap Lyrics

Students will get the full rap to make it easier to see what is given each day

Here is the last verse:

On the TWELFTH day of 6th grade, my teacher gave to me:

12 backpacks bulging

6 Sharpie markers,

11 AR books

5 number 2 pencils!

10 3-ring binders

4 glue sticks,

9 fine erasers

3 rulers,

8 composition books

2 pairs of scissors

7 ink pens

and a pair of running shoes!

Sheet 2 of Completed Google Spreadsheet

f_x | 12 days of 6th Grade

A B C D E F G H I J K L M N O P Q

12 days of 6th Grade

Pete Pupil & Sarah Student

	Paste the link to item that you found.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	# of items	Cost per item	Total Cost
5	1 pair of running shoes http://www.zappos.com/nike-flex-experience-run-2-wolf-grey-prize-blue-prize-blue-stealth	1	1	1	1	1	1	1	1	1	1	1	1	12	\$58.50	\$702.00
6	2 pair of scissors http://www.amazon.com/Scotch-1448-Precision-Scissor-8-Inches/dp/B001BK1HGS/ref=sr_1_1?ie=UTF8&qid=1391377948&sr=8-1&keywords=scotch+precision+scissor+8+inches+1448		2	2	2	2	2	2	2	2	2	2	2	22	\$5.47	\$120.34
7	3 rulers http://www.amazon.com/Westcott-Non-Shatter-Ruler-Length-13982/dp/B00309RVJ6/ref=sr_1_1?ie=UTF8&qid=1391378048&sr=8-1&keywords=Westcott+Non-Shatter+Ruler%2C+12+inch			3	3	3	3	3	3	3	3	3	3	30	\$0.89	\$26.70
8	4 glue sticks http://www.amazon.com/3M-Scotch-Craft-Stick-1-41-Ounce/dp/B00027D5U8/ref=sr_1_1?ie=UTF8&qid=1391378123&sr=8-1&keywords=3M+Scotch+Craft+Stick+1.41-Ounce				4	4	4	4	4	4	4	4	4	36	\$5.11	\$183.96
9	5 number two pencils http://www.amazon.com/Paper-Mate-Mechanical-Starter-1898817/dp/B00C90Q0YK/ref=sr_1_22?s=office-products&ie=UTF8&qid=1391378248&sr=1-22					5	5	5	5	5	5	5	5	40	\$0.40	\$16.00
10	6 Sharpie markers http://www.amazon.com/Sharpie-Point-Permanent-Markers-30162PP/dp/B000QYLWVK/ref=sr_1_2?s=office-products&ie=UTF8&qid=1391378457&sr=1-2&keywords=Sharpie+Fine+Point+Permanent+Markers						6	6	6	6	6	6	6	42	\$0.82	\$34.44
11	7 ink pens http://www.amazon.com/Parker-Retractable-Ballpoint-Stainless-79033/dp/B00112XNJQ/ref=sr_1_3?s=office-products&ie=UTF8&qid=1391378580&sr=1-3&keywords=parker+pen							7	7	7	7	7	7	42	\$7.99	\$335.58
12	8 composition books http://www.target.com/p/120-sheet-mead-composition-book/-/A-13913622#prodSlot=medium_1_5&term=composition+book								8	8	8	8	8	40	\$2.49	\$99.60
13	9 erasers http://www.amazon.com/Pental-Hi-Polymer-Eraser-Nonabrasive-PENZEH10/dp/B0008HXSBU/ref=sr_1_10?s=office-products&ie=UTF8&qid=1391378822&sr=1-10&keywords=erasers									9	9	9	9	36	\$1.99	\$71.64
14	10 3-ring binders http://www.staples.com/2-inch-Avery-Economy-View-Binders-with-Round-Rings/product_S5100935										10	10	10	30	\$5.99	\$179.70
15	11 AR books http://www.amazon.com/The-Last-Dragonslayer-Chronicles-Kazam/dp/0544104714/ref=sr_1_1?ie=UTF8&qid=1391379053&sr=8-1&keywords=The+Last+Dragonslayer%3A+The+Chronicles+of+Kazam											11	11	22	\$7.19	\$158.18
16	12 backpacks http://www.target.com/plmbark-jarop-orange-plaid/-/A-14510952#?link=so_q_detailink												12	12	\$17.99	\$215.88

Use the following sites to try to find the best prices:
[Amazon](#) [Zappos\(shoes\)](#)
[Staples](#) [Foot Locker](#)
[OfficeMax](#) [Target](#)

Grand total for one student **\$2,144.02**

↓ Check out the pie chart on sheet 3 to see what your spending looks like!

Add more rows at bottom.

Sheet 2 of Completed Google Spreadsheet

12 days of 6th Grade																	
Pete Pupil & Sarah Student																	
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6	2 pair of scissors	http://www.amazon.com/Scotch-1448-Precision-Scissor-8-Inches/dp/B001BK1HGS/ref=sr_1_1?ie=UTF8&qid=1391377948&sr=8-1&keywords=scotch+precision+scissor+8-inches+1448		2	2	2					2	2	2	22	\$5.47	\$120.34	
7	3 rulers	http://www.amazon.com/Westcott-Non-Shatter-Ruler-Length-13.982/dp/B00309RVJ6/ref=sr_1_1?ie=UTF8&qid=1391378048&sr=8-1&keywords=Westcott+Non-Shatter+Ruler%2C+12+Inch											3	30	\$0.89	\$26.70	
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															Grand total for one student		\$2,144.02

1

Student will use these links to search for a good price for each item

- Use the following sites to try to find the best prices:
- [Amazon](#)
 - [Staples](#)
 - [OfficeMax](#)
 - [Zappos\(shoes\)](#)
 - [Foot Locker](#)
 - [Target](#)

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16	12 backpacks http://www.target.com/plambark-jarop-orange-plaid/-/A-14510952#?link=so_q_detailink													12	\$17.99	\$215.88	

2
Each item's unit price is entered here

Use the following sites to try to find the best prices:															Total for one student		\$2,144.02
Amazon		Zappos(shoes)															
Staples		Foot Locker															
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Add more rows at bottom.

Sheet 2 of Completed Google

3

The link to where they found the item is copied and pasted (in a 6pt font formatted cell)

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Grand total for one student **\$2,144.02**

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Add 20 more rows at bottom.

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fx =SUM(C5:N5)

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5
Now they are ready to use formulas

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14	10 3-ring binders	http://www.staples.com/2-inch-Avery-Economy-View-Binders-with-Round-Rings/product_S51000935								\$179.70	
15	11 AR books	http://www.amazon.com/The-Last-Dragonlayer-Chronicles-Kazam/dp/0544104714/ref=sr_1_1?ie=UTF8&qid=1391379053&sr=8_1&keywords=The+Last+Dragonlayer%3A+The+Chronicles+of+Kazam							\$9	\$158.18	
16	12 backpacks	http://www.target.com/plambark-jarop-orange-plaid/-/A-14510952#?link=so_q_detailink							\$99	\$215.88	
18	Use the following sites to try to find the best prices:									the student	\$2,144.02
19	Amazon	Zappos(shoes)									
20	Staples	Foot Locker									
21	OfficeMax	Target									
24	↓ Check out the pie chart on sheet 3 to see what your spending looks like!										

5
Now they are ready to use formulas
In cell O5, students enter: **=SUM(C5:N5)**

Add 20 more rows at bottom.

Sheet 2 of Completed Google Spreadsheet

12 days of 6th Grade										
Pete Dutil & Sarah Student										
		Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	# of items	Cost per item	Total Cost
1 pair of running shoes	http://www.zappos.com/nike-flex-experience-blue-prize-blue-stealth	1	1	1	1	1	1	12	\$58.50	\$702.00
2 pair of scissors	http://www.amazon.com/Scotch-1448-Precision-Inches/dp/B001BK1HGS/ref=sr_1_1?ie=UTF8&keywords=scotch+precision+scissors	2	2	2	2	2	2	2	\$5.47	\$120.34
3 rulers	http://www.amazon.com/Westcott-Non-Slip-13982/dp/B00309RVJ6/ref=sr_1_1?ie=UTF8&keywords=Westcott+Non-Shatter+Ruler	3	3	3	3	3	3	3	\$0.89	\$26.70
4 glue sticks	http://www.amazon.com/3M-Scotch-Craft-Ounce/dp/B00027D5U8/ref=sr_1_1?ie=UTF8&keywords=3M+Scotch+Craft+Stick	4	4	4	4	4	4	36	\$5.11	\$183.96
5 number two pencils	http://www.amazon.com/Paper-Mate-Medium-1898817/dp/B00C90Q0YK/ref=sr_1_22?ie=UTF8&keywords=pencil+number+two							40	\$0.40	\$16.00
6 Sharpie markers	http://www.amazon.com/Sharpie-Fine-Point-Permanent-Markers/dp/B000QYLCWK/ref=sr_1_22?ie=UTF8&keywords=Sharpie+Fine+Point+Permanent+Markers								\$0.82	\$34.44
7 ink pens	http://www.amazon.com/Parker-Retractable-Ballpoint-Stapler/dp/B00112XNJQ/ref=sr_1_3?ie=UTF8&keywords=parker+pen								\$9.99	\$335.58
8 composition books	http://www.target.com/p/120-sheet-mead-composition-book/-/A-13313622#prodSlot=medium_1_5&term=composition+book									\$99.60
9 erasers	http://www.amazon.com/Pentel-Hi-Polymer-Eraser-Nonabrasive-PENZEH10/dp/B0008HXSSU/ref=sr_1_10?ie=UTF8&keywords=erasers									\$71.64
10 3-ring binders	http://www.staples.com/2-inch-Avery-Economy-View-Binders-with-Round-Rings/product_S51000935									\$179.70
11 AR books	http://www.amazon.com/The-Last-Dragonslayer-Chronicles-Kazam/dp/0544104714/ref=sr_1_1?ie=UTF8&qid=1391379053&sr=8_1&keywords=The+Last+Dragonslayer%3A+The+Chronicles+of+Kazam								\$15.81	\$158.18
12 backpacks	http://www.target.com/plmbark-jarlop-orange-plaid/-/A-14510952#?link=so_q_detaillink								\$18.15	\$215.88
										\$144.02

5
Now they are ready to use formulas

In cell O5, students enter: **=SUM(C5:N5)**

And then drag down to populate the column

- Use the following sites to try to find the best prices:
- [Amazon](#)
 - [Zappos\(shoes\)](#)
 - [Staples](#)
 - [Foot Locker](#)
 - [OfficeMax](#)
 - [Target](#)

Check out the pie chart on sheet 3 to see what your spending looks like

Add 20 more rows at bottom.

Sheet 2 of Completed Google Spreadsheet

12 days of 6th Grade																	
Pete Pupil & Sarah Student																	
	Paste the link to item that you found.	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	# of items	Cost per item	Total Cost	
5	1 pair of running shoes	http://www.zappos.com/nike-flex-experience-run-2-wolf-grey-prize-blue-prize-blue-stealth	1	1	1	1	1	1	1	1	1	1	1	12	\$58.50	\$702.00	
6	2 pair of scissors	http://www.amazon.com/Scotch-1448-Precision-Scissor-8-Inches/dp/B001BK1HGS?ref=sr_1_1?ie=UTF8&qid=1391377948&sr=8-1&keywords=scotch+precision+scissor+8+inches+1448		2	2	2	2	2	2	2	2	2	2	22	\$5.47	\$120.34	
7	3 rulers	http://www.amazon.com/Westcott-Non-Shatter-Ruler-Length-13982/dp/B00309RVJ8?ref=sr_1_1?ie=UTF8&qid=1391378048&sr=8-1&keywords=Westcott+Non-Shatter+Ruler%2C+12+Inch			3	3	3	3	3	3	3	3	3		\$0.89	\$26.70	
8	4 glue sticks	http://www.amazon.com/3M-Scotch-Craft-Stick-1-41-Ounce/dp/B00027D5U8?ref=sr_1_1?ie=UTF8&qid=1391378123&sr=8-1&keywords=3M+Scotch+Craft+Stick+1.41-Ounce				4	4	4	4	4	4	4	4	16	\$5.11	\$183.96	
9	5 number two pencils	http://www.amazon.com/Paper-Mate-Mechanical-Starter-1898817/dp/B00C90Q0YK?ref=sr_1_2?ie=UTF8&qid=1391378248&sr=1-2&keywords=office+products&ie=UTF8&qid=1391378248&sr=1-2												40	\$0.40	\$16.00	
10	6 Sharpie markers	http://www.amazon.com/Sharpie-Permanent-Marker-30162PP/dp/B000QYLCWV?ref=sr_1_2?ie=UTF8&qid=1391378373&sr=1-2&keywords=sharpie+permanent+marker&ie=UTF8&qid=1391378373&sr=1-2													\$5.74	\$34.44	
11	7 ink pens															\$335.58	
12	8 composition books															\$29.60	
13	9 erasers															\$64	
14	10 3-ring binders															\$70	
15	11 AR books															\$58.18	
16	12 backpacks															\$215.88	
17																	
18	Use the following sites to try to find the best price for each item.															\$2,144.02	
19	Amazon	Zappos(shoes)															
20	Staples	Foot Locker															
21	OfficeMax	Target															
22																	
23																	
24	↓ Check out the pie chart on sheet 3 to see what your spending looks like!																
25																	

6

In cell Q5, students create a formula to multiply unit cost by number of items.

=O5*P5

And drag it down to populate the column

Add 20 more rows at bottom.

Sheet 2 of Completed Google Spreadsheet

fx =SUM(Q5:Q16)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
1	12 days																	
2																		
3																		
4		Paste the link to item that you found.																
5	1 pair of running shoes	http://www.zappos.com/nike-flex-experience-blue-prize-blue-stealth																
6	2 pair of scissors	http://www.amazon.com/Scotch-1448-Precision-Inches/dp/B001BK1HGS/ref=sr_1_1?ie=UTF8&keywords=scotch+precision+scissors																
7	3 rulers	http://www.amazon.com/Westcott-Non-Slip-13982/dp/B00309RVJ6/ref=sr_1_1?ie=UTF8&keywords=Westcott+Non-Shatter+Ruler																
8	4 glue sticks	http://www.amazon.com/3M-Scotch-Craft-Ounce/dp/B00027D5U8/ref=sr_1_1?ie=UTF8&keywords=3M+Scotch+Craft+Stick																
9	5 number two pencils	http://www.amazon.com/Paper-Mate-Mechanical-1898817/dp/B00C90Q0YK/ref=sr_1_2?ie=UTF8&keywords=pencil																
10	6 Sharpie markers	http://www.amazon.com/Sharpie-Point-Permanent-30162PP/dp/B000QYLCWK/ref=sr_1_2?ie=UTF8&keywords=Sharpie																
11	7 ink pens	http://www.amazon.com/Parker-Retractable-Ballpoint-79033/dp/B00112XNJQ/ref=sr_1_3?ie=UTF8&keywords=parker																
12	8 composition books	http://www.target.com/p/120-sheet-medium-composition-book/-/A-13313622#prodSlot=medium_1_5&term=composition+book																
13	9 erasers	http://www.amazon.com/Pental-Hi-Polymer-Eraser-Nonabrasive-PENZEH10/dp/B0008HXSBU/ref=sr_1_10?ie=UTF8&keywords=erasers																
14	10 3-ring binders	http://www.staples.com/2-inch-Avery-Economy-View-Binders-with-Round-Rings/product_S51000935																
15	11 AR books	http://www.amazon.com/The-Last-Dragonlayer-Chronicles-Kazam/dp/0544104714/ref=sr_1_1?ie=UTF8&qid=1391379053&sr=8_1&keywords=The+Last+Dragonlayer%3A+The+Chronicles+of+Kazam																
16	12 backpacks	http://www.target.com/plmbark-jarop-orange-plaid/-/A-14510952#?link=so_q_detailink																
17																		
18	Use the following sites to try to find the best prices:																Grand total for one student	\$2,144.02
19	Amazon																Zappos(shoes)	
20	Staples																Foot Locker	
21	OfficeMax																Target	
22																		
23																		
24																		
25																		

7

Have students come up with the needed formula for Q17, the Grand Total =SUM(Q5:Q16)

Use the following sites to try to find the best prices:

[Amazon](#) [Zappos\(shoes\)](#)

[Staples](#) [Foot Locker](#)

[OfficeMax](#) [Target](#)

↓ Check out the pie chart on sheet 3 to see what your spending looks like!

Add 20 more rows at bottom.

Learning Plan

Day 1:

1. Share the 12 Days of 6th Grade Google Spreadsheet and 12 Days of 6th Grade Rap lyrics.
2. **ANNOUNCE!** the scenario
3. Acquaint students with “home” sheet instructions, and each of the other 4 sheets in the Google Spreadsheet.
4. Today they will **only** work on sheet 2 (12 Days). They will look up items using the links on the sheet in the yellow box, record unit prices in Column P, and paste the URL in column B (steps 1-3 from above slides).

Day 1 Learning Plan continued



Learning Plan

Day 1 continued:

4. If there is time, they can input the number of each gift given on each day in columns C - M, using the 12 Days of 6th Grade Rap lyrics (step 4 from above slides).
5. **DO NOT** change anything on sheet 3, "Pie Chart!" This sheet will automatically fill and change as you enter data on sheet 2.
 - Students write only on sheets 2 (12 Days) and 4 (Think Qs).
 - Sheets 1, 3, and 5 are for viewing only.

Learning Plan

Day 1 continued:

4. If there is time, they can input the number of each gift given on each day in columns C - M, using the 12 Days of 6th Grade Rap lyrics (step 4 from above slides).
5. **DO NOT** change anything on sheet 3, “Pie Chart!” This sheet will automatically fill and change as you enter data on sheet 2.
 - Students write only on sheets 2 (12 Days) and 4 (Think Qs).
 - Sheets 1, 3, and 5 are for viewing only.

INTRODUCING... Sheets 1, 3, 4, and 5:
Home, Pie Chart, Think Qs and Rubric sheets



Sheet 1: Home

Welcome to The 12 Days of 6th Grade!

EXTRA! EXTRA!

Mr. H. has decided to buy the items in the 12 Days of 6th Grade Rap for each student in his class. He has a \$3000 budget for each student, but the Principal has asked that he spend less than \$2000 per student if possible.

INSTRUCTIONS:

Once you and your partner have gotten to this spreadsheet...

One of you will make a copy and share it with you partner and with Mr. H.

- Be sure to type in your names at the top of the sheet under the title
- Change the sharing title to 12 Days.
- Follow the instructions given in class to complete sheet 2 (12 Days).
- Do not change anything on sheet 3 (Pie Chart). It will do it automatically for you.

Get the best prices so that your grand total in cell Q18 turns green!

< \$2000

\$2000-\$3000

> \$3000



Home ▾

12 Days ▾

Pie Chart ▾

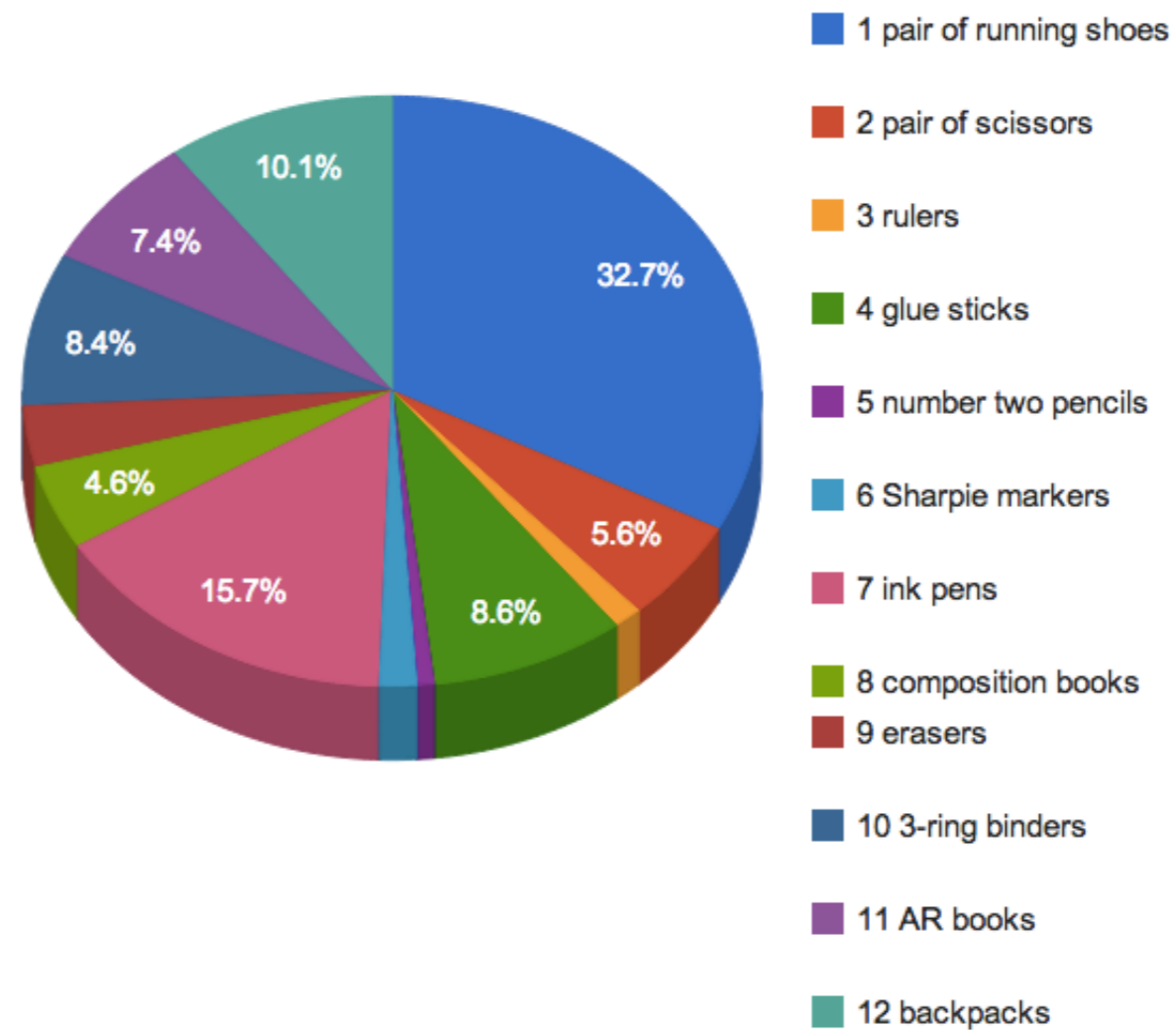
Think Qs ▾

Rubric ▾

Sheet 3: Pie Chart

	A	B
1	Item	Amount needed to pay for each item for all 12 days
2	1 pair of running shoes	\$702
3	2 pair of scissors	\$120.34
4	3 rulers	\$26.7
5	4 glue sticks	\$183.96
6	5 number two pencils	\$16
7	6 Sharpie markers	\$34.44
8	7 ink pens	\$335.58
9	8 composition books	\$99.6
10	9 erasers	\$71.64
11	10 3-ring binders	\$179.7
12	11 AR books	\$158.18
13	12 backpacks	\$215.88

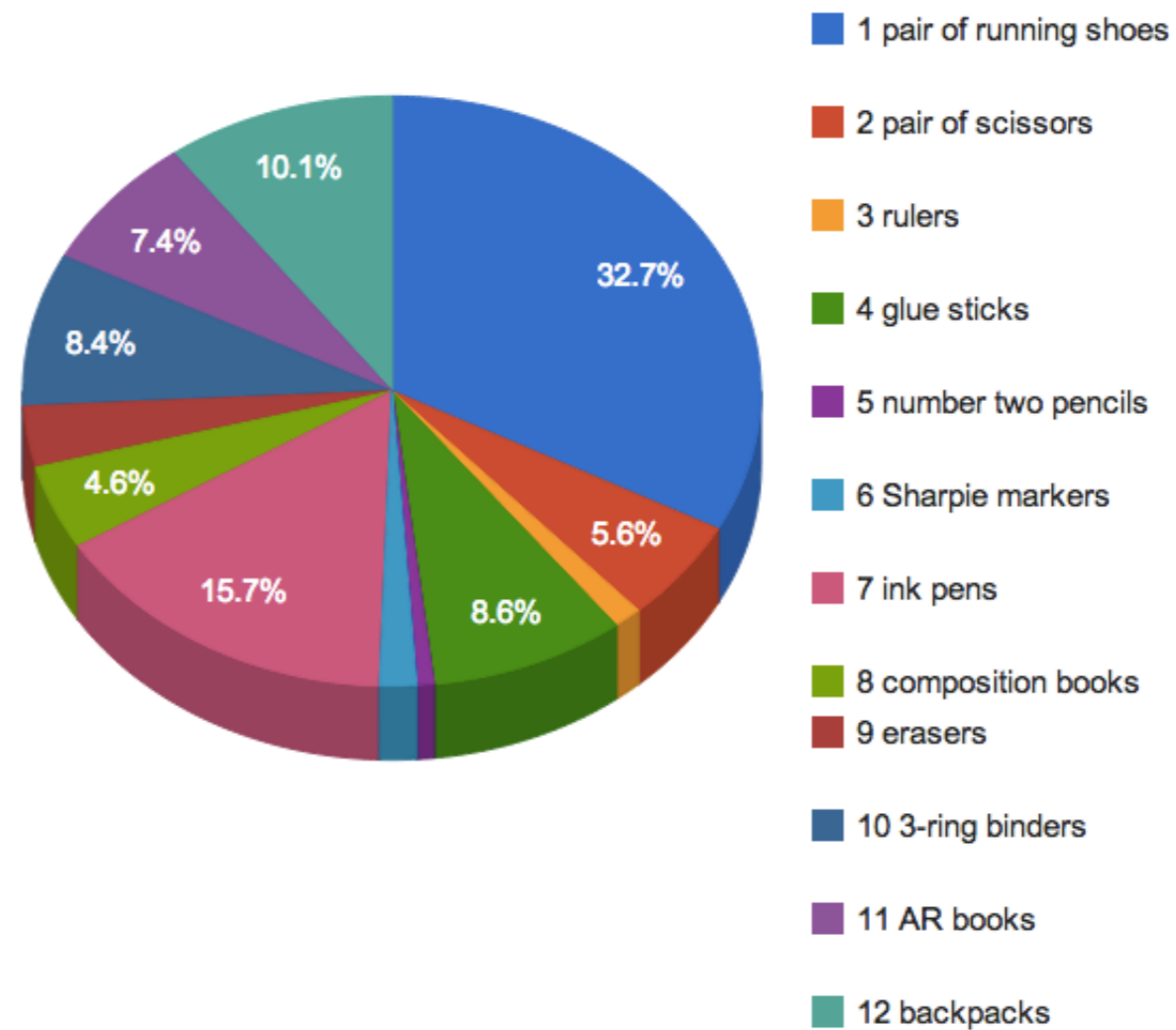
Visualize It – What Part of the Total Cost is each Item?



Sheet 3: Pie Chart

Item	Amount needed to pay for each item for all 12 days
1 pair of running shoes	\$702
2 pair of scissors	\$120.34
3 rulers	\$26.7
4 glue sticks	\$183.96
5 number two pencils	\$16
6 Sharpie markers	\$34.44
7 ink pens	\$335.58
8 composition books	\$99.6
9 erasers	\$71.64
10 3-ring binders	\$179.7
11 AR books	\$158.18
12 backpacks	\$215.88

Visualize It – What Part of the Total Cost is each Item?



NOT WRITE
ON THIS SHEET!



Home

12 Days

Pie Chart

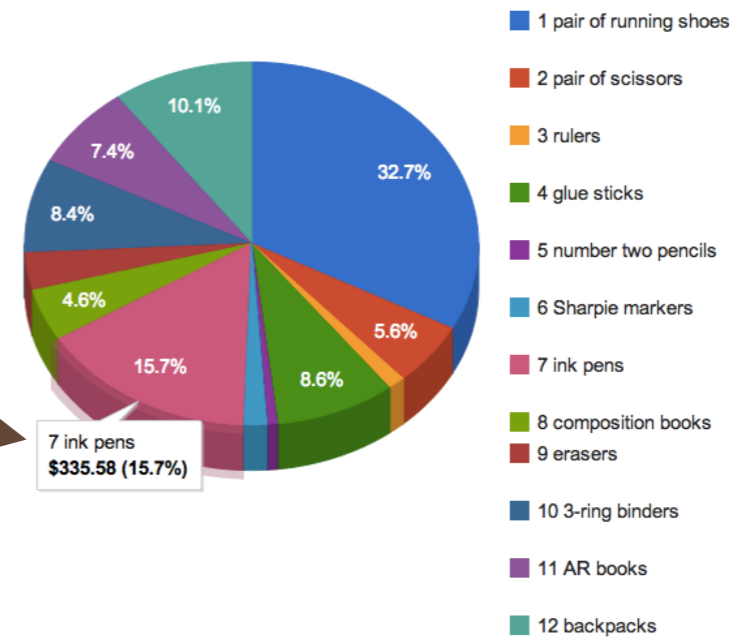
Think Qs

Rubric

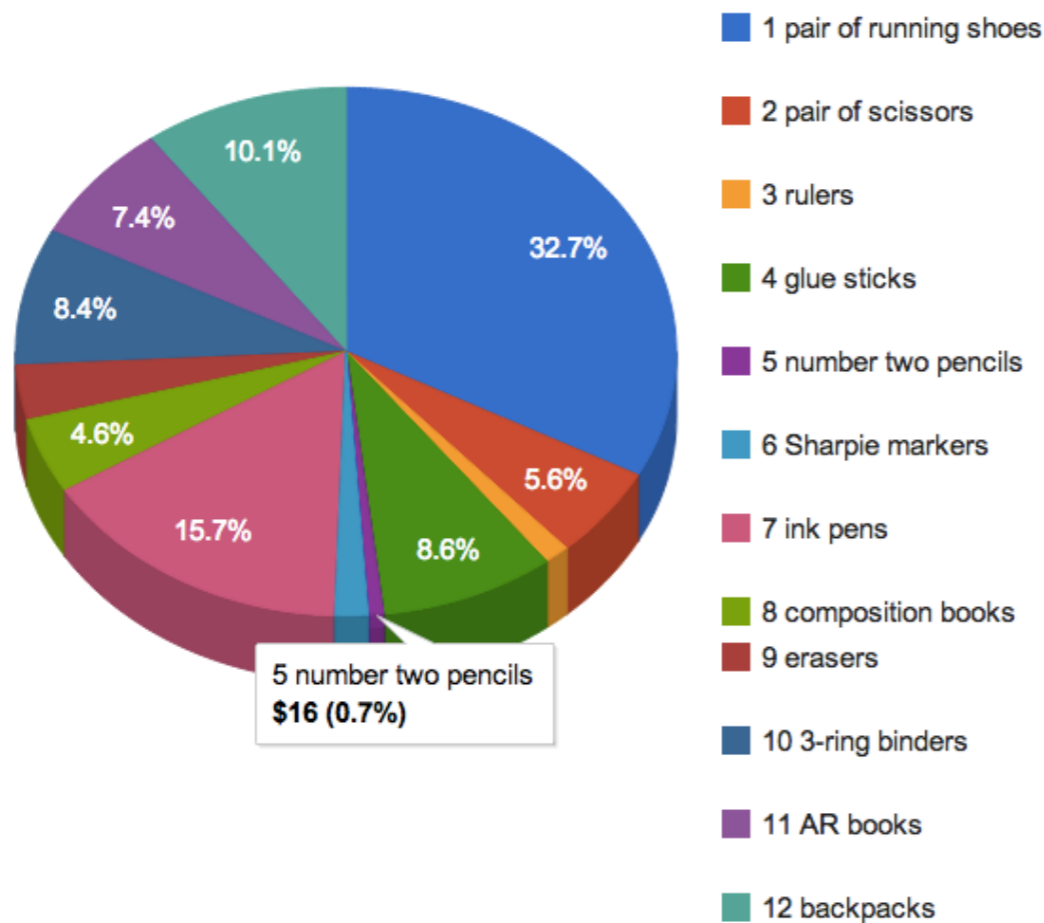
Sheet 3: Pie Chart

Mousing over different sections of the pie chart reveal the item, and its total price over the 12 days.

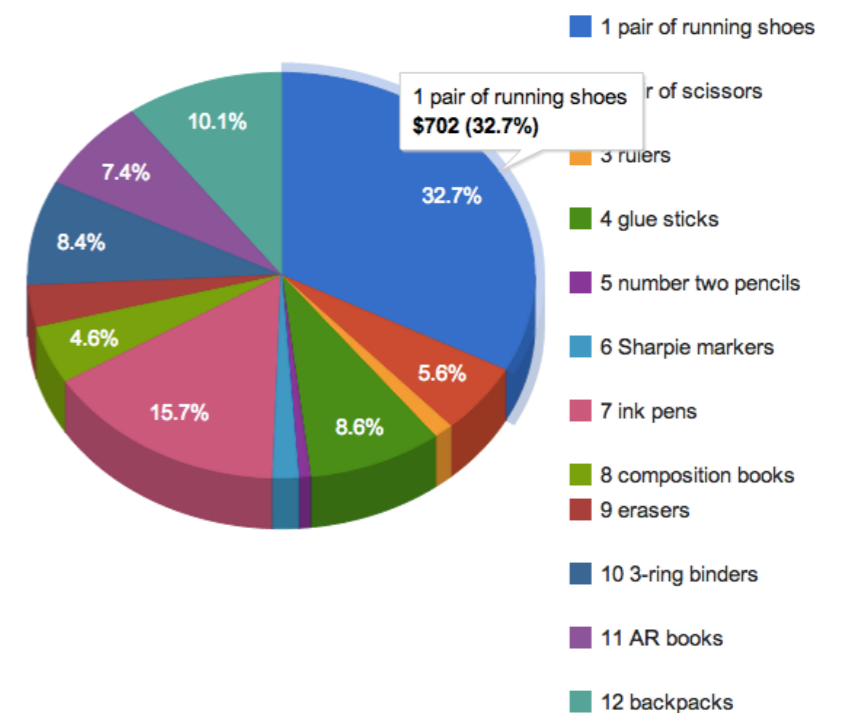
Visualize It – What Part of the Total Cost is each Item?



Visualize It – What Part of the Total Cost is each Item?



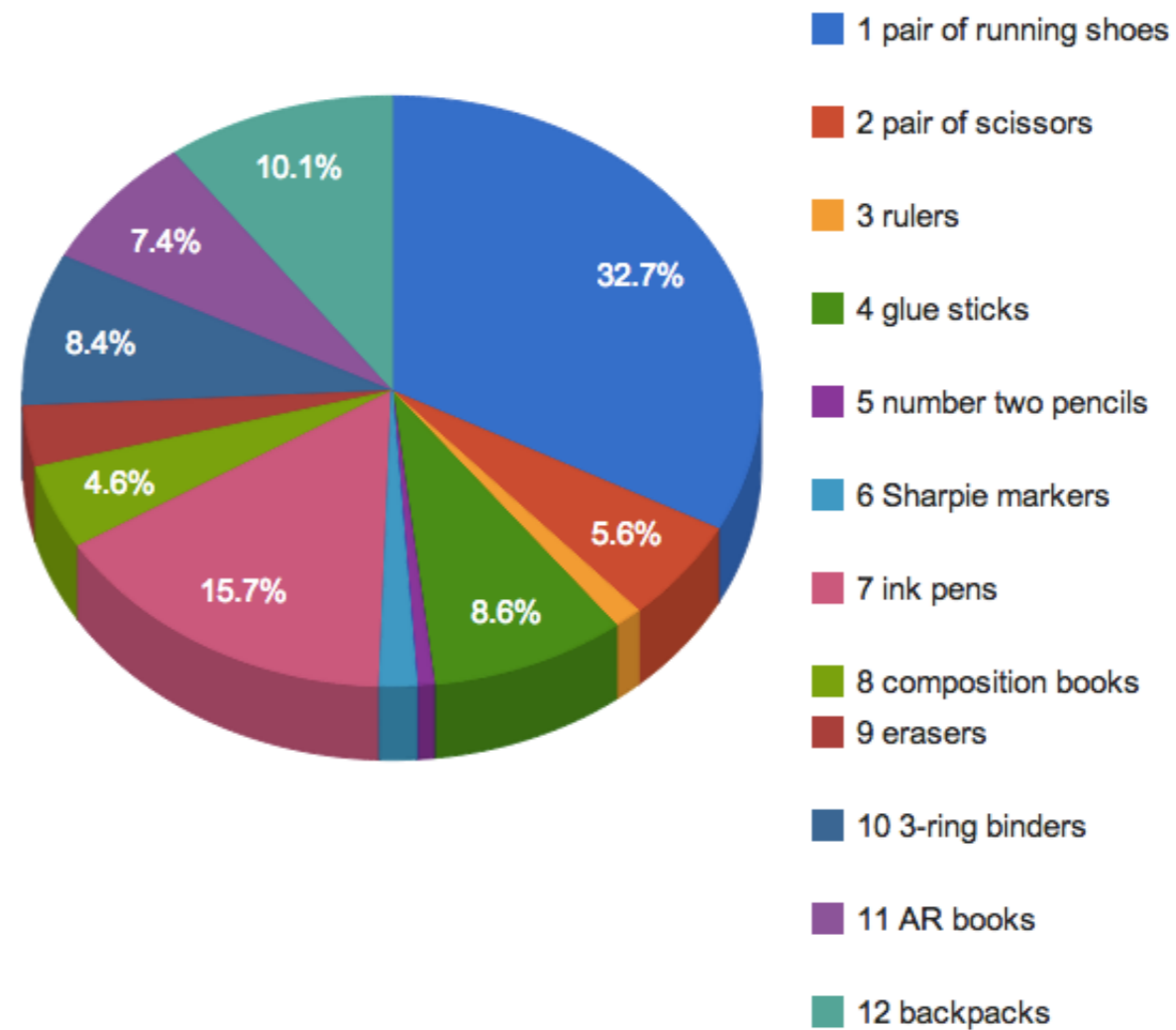
Visualize It – What Part of the Total Cost is each Item?



Sheet 3: Pie Chart

	A	B	C	D	E	F	G	H	I
1	Item	Amount needed to pay for each item for all 12 days							
2	1 pair of running shoes	\$702							
3	2 pair of scissors	\$120.34							
4	3 rulers	\$26.7							
5	4 glue sticks	\$183.96							
6	5 number two pencils	\$16							
7	6 Sharpie markers	\$34.44							
8	7 ink pens	\$335.58							
9	8 composition books	\$99.6							
10	9 erasers	\$71.64							
11	10 3-ring binders	\$179.7							
12	11 AR books	\$158.18							
13	12 backpacks	\$215.88							
14									

Visualize It – What Part of the Total Cost is each Item?



This sheet automatically fills in as students add data on sheet 2.

Column A uses the formula:
`=ARRAYFORMULA('12 Days'!A5:A16)`

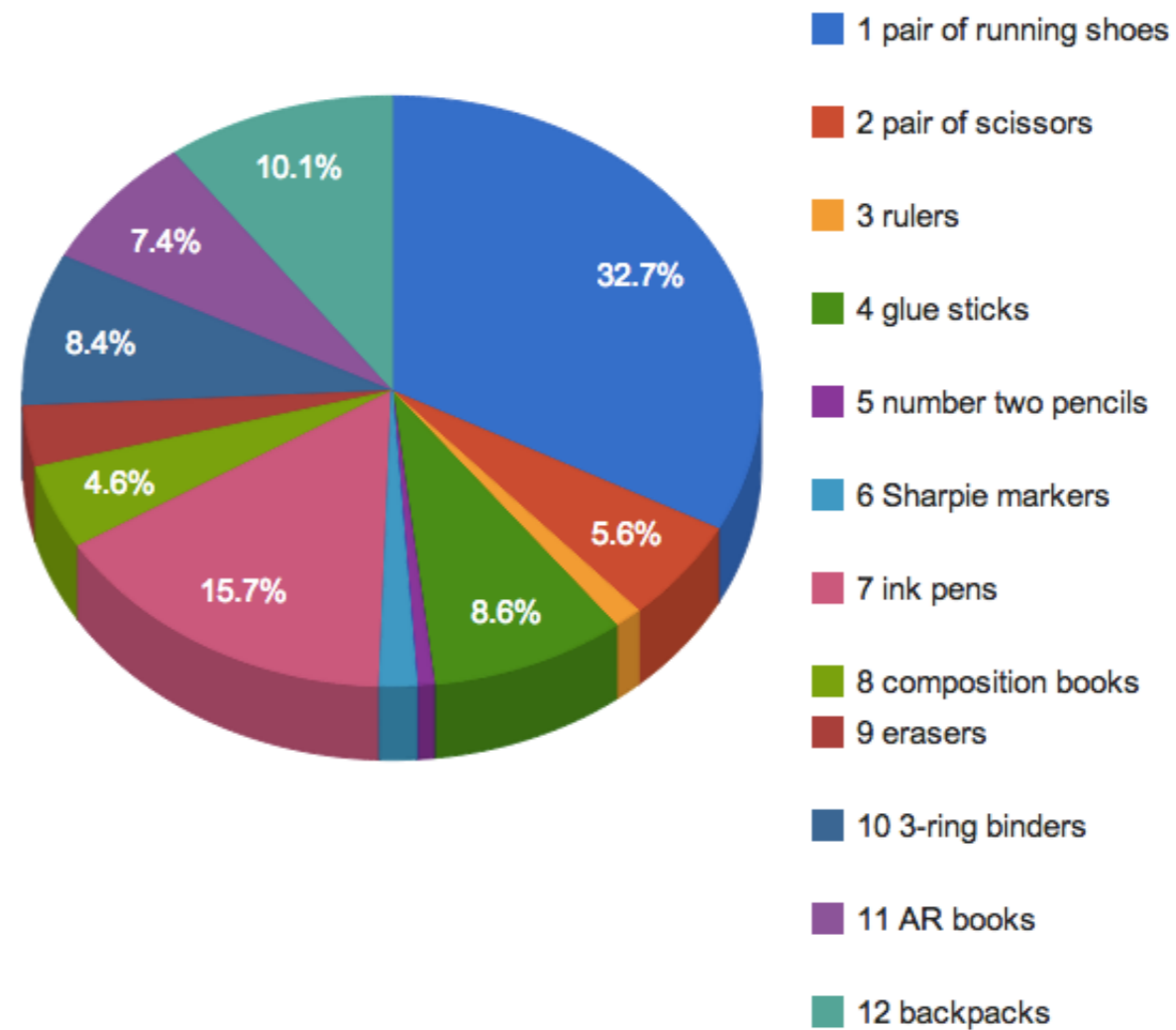
Column B uses the formula:
`=ARRAYFORMULA('12 Days'!Q5:Q16)`

Sheet 3: Pie Chart

Should the students find a better price and enter it on sheet 2, both the table in columns A & B and the Pie Chart will adjust accordingly.

	A	B	C	D	E
1	Item	Amount needed to pay for each item for all 12 days			
2	1 pair of running shoes	\$702			
3	2 pair of scissors	\$120.34			
4	3 rulers	\$26.7			
5	4 glue sticks	\$183.96			
6	5 number two pencils	\$16			
7	6 Sharpie markers	\$34.44			
8	7 ink pens	\$335.58			
9	8 composition books	\$99.6			
10	9 erasers	\$71.64			
11	10 3-ring binders	\$179.7			
12	11 AR books	\$158.18			
13	12 backpacks	\$215.88			
14					

Visualize It – What Part of the Total Cost is each Item?



This sheet automatically fills in as students add data on sheet 2.

Column A uses the formula:
`=ARRAYFORMULA('12 Days'!A5:A16)`

Column B uses the formula:
`=ARRAYFORMULA('12 Days'!Q5:Q16)`

Sheet 3: Pie Chart

Should the students find a better price and enter it on sheet 2, both the table in columns A & B and the Pie Chart will adjust accordingly.

	A	B	C	D	E
1	Item	Amount needed to pay for each item for all 12 days			
2	1 pair of running shoes	\$702			
3	2 pair of scissors	\$120.34			
4	3 rulers	\$26.7			
5	4 glue sticks	\$183.96			
6	5 number two pencils	\$16			
7	6 Sharpie markers	\$34.44			
8	7 ink pens	\$335.58			
9	8 composition books	\$99.6			
10	9 erasers	\$71.64			
11	10 3-ring binders	\$179.7			
12	11 AR books	\$158.18			
13	12 backpacks	\$215.88			
14					

Visualize It – What Part of the Total Cost is each Item?



DO NOT WRITE ON THIS SHEET!

This sheet automatically fills in as students add data on sheet 2.

Column A uses the formula:
`=ARRAYFORMULA('12 Days'!A5:A16)`

Column B uses the formula:
`=ARRAYFORMULA('12 Days'!Q5:Q16)`

Sheet 4: Think Qs

Think Qs

What did you learn?

Answer each question on the row below each question. Your answer should come out blue.

1 Q: What is the difference between the totals on column P on sheet 2 (12 Days) and the totals in column B of sheet 3 (Pie Chart)

1 Answer:

2 Q: Was the item with the highest unit cost (on sheet 2), the one that cost the most for the 12 days (on sheet 3)? Why or why not?

2 Answer:

3 Q: Was the item with the lowest unit cost (on sheet 2), the one that cost the least for the 12 days (on sheet 3)? Why or why not?

3 Answer:

4 Q: Look at the formula for the Amazon hyperlink on sheet 2 (12 Days). Using what you learned from that, make "1 pair of Running Shoes" into a hyperlink to the website that has the shoes you chose.

4 Answer: [See sheet 2 :](#)

5 Q: Luke 12:48b says, "When someone has been given much, much will be required in return; and when someone has been entrusted with much, even more will be required." Does this have anything to do with this activity? Explain why or why not?

5 Answer:

6 Q: After considering your answer to #5, what one (or more) thing would you change about this activity?

6 Answer:

7 Q: What did you like most about this activity and what did you like least? Explain why?

7 Answer:

Extra Credit: Look at the formulas on sheet 3 (Pie Chart) for columns A and B. What are those formulas doing? Think about how your numbers got there without you even putting them in. You may search the internet for information.

XC Answer:



Home ▾

12 Days ▾

Pie Chart ▾

Think Qs ▾

Rubric ▾

Sheet 4: Think Qs

	A	B	C	D
1	Think Qs			
2	What did you learn?			
3	Answer each question on the row below each question. Your answer should come out blue.			
5	1 Q: What is the difference between the totals on column P on sheet 2 (12 Days) and the totals in column B of sheet 3 (Pie Chart)			
6	1 Answer:			
7	2 Q: Was the item with the highest unit cost (on sheet 2), the one that cost the most for the 12 days (on sheet 3)? Why or why not?			
8	2 Answer:			
9	3 Q: Was the item with the lowest unit cost (on sheet 2), the one that cost the least for the 12 days (on sheet 3)? Why or why not?			
10	3 Answer:			
11	4 Q: Look at the formula for the Amazon hyperlink on sheet 2 (12 Days). Using what you learned from that, make "1 pair of Running Shoes" into a hyperlink to the website that has the shoes you chose.			
12	4 Answer: See sheet 2 :)			
13	5 Q: Luke 12:48b says, "When someone has been given much, much will be required in return; and when someone has been entrusted with much, even more will be required." Does this have anything to do with this activity? Explain why or why not?			
14	5 Answer:			
15	6 Q: After considering your answer to #5, what one (or more) thing would you change about this activity?			
16	6 Answer:			
17	7 Q: What did you like most about this activity and what did you like least? Explain why?			
18	7 Answer:			
19	Extra Credit: Look at the formulas on sheet 3 (Pie Chart) for columns A and B. What are those formulas doing? Think about how your numbers got there without you even putting them in. You may search the internet for information.			
20	XC Answer:			

This can be completed at home or on day 3 with a class discussion to follow.

Home ▾ 12 Days ▾ Pie Chart ▾ Think Qs ▾ Rubric ▾

Sheet 5: Rubric

Rubric				
Use this rubric to guide you as you complete this project				
Graded item	4	3	2	1
Sharing, naming	<ul style="list-style-type: none"> • Spreadsheet is shared correctly with partner and Mr. H. • Spreadsheet has proper sharing title • Spreadsheet has partners names on sheet 2 	All of 4, except: 1 item missing	All of 4 except: 2 items missing	Missing all elements.
Column input	All data is correctly input	1-3 errors on input data	4-5 errors on input data	6 or more errors on input data
Formulas	All formulas input correctly	1-2 errors with formulas	3-4 errors with formulas	5 or more errors with formulas
Formatting	<p>The formatting of sheets 2 and 3 is consistent with the original spreadsheet. No changes were made to:</p> <ul style="list-style-type: none"> • Frozen rows 1-4 • Column Titles and widths • Row Titles and widths • Header • Formatting of font sizes • Formulas on sheet 3, "Pie Chart" • Width of sheet 2 is visible without scrolling, but you may need to scroll down to see the rest of the sheet 	All of 4 except 1 change	All of 4 except 2 changea	All of 4 except 3 or more changes
Grand Total	Grand total for each student is less than \$2000	Grand total is between \$2000-\$2499	Grand total is between \$2500-\$3000	Grand total is greater than \$3000
Think Qs	4 or 5 questions answered completely and correctly (1 extra point for the extra credit question).	All of 4 except 2 questions incomplete or wrong	All of 4 except 2 questions incomplete or wrong	All of 4 except 4 or more questions incomplete or wrong

Sheet 5: Rubric

Rubric				
Use this rubric to guide you as you complete this project				
Graded item	4	3	2	1
Sharing, naming	<ul style="list-style-type: none"> • Spreadsheet is shared correctly with partner and Mr. H. • Spreadsheet has proper sharing title • Spreadsheet has partners names on sheet 2 	All of 4, except: 1 item missing	All of 4 except: 2 items missing	Missing all elements.
Column input	All data is correctly input	1-3 errors on input data	4-5 errors on input data	6 or more errors on input data
Formulas	All formulas input correctly	1-2 errors with formulas	3-4 errors with formulas	5 or more errors with formulas
Formatting	The formatting of sheets 2 and 3 is consistent with the original spreadsheet. No changes were made to: <ul style="list-style-type: none"> • Frozen rows 1-4 • Column Titles and widths • Row Titles and widths • Header • Formatting of font sizes • Formulas on sheet 3, "Pie Chart" • Width of sheet 2 is visible without scrolling, but you may need to scroll down to see the rest of the sheet 	All of 4 except 1 change	All of 4 except 2 changea	All of 4 except 3 or more changes
Grand Total	Grand total for each student is less than \$2000	Grand total is between \$2000-\$2499	Grand total is between \$2500-\$3000	Grand total is greater than \$3000
Think Qs	4 or 5 questions answered completely and correctly (1 extra point for the extra credit question).	All of 4 except 2 questions incomplete or wrong	All of 4 except 2 questions incomplete or wrong	All of 4 except 4 or more questions incomplete or wrong

Be sure to go over this on day 1

Learning Plan

continued

Day 2:

1. Today they should be able to complete sheet 2, "12 Days."
 - A. Answer any questions about filling in columns C-M.
 - B. Demonstrate the formulas needed for columns O and Q.
 - C. Encourage students to figure out the formula for Q18 themselves.
 - D. Have students go back and see if they can find any lower prices to replace what they have.
2. Early finishing students can make another copy of the shared spreadsheet and choose their "dream items" regardless of the cost :)
3. If there is time, begin work on Think Qs or assign for homework.

Learning Plan

continued

Day 2:

1. Today they should be able to complete sheet 2, “12 Days.”
 - A. Answer any questions about filling in columns C-M.
 - B. Demonstrate the formulas needed for columns O and Q.
 - C. Encourage students to figure out the formula for Q18 themselves.
 - D. Have students go back and see if they can find any lower prices to replace what they have.
2. Early finishing students can make another copy of the shared spreadsheet and choose their “dream items” regardless of the cost :)
3. If there is time, begin work on Think Qs or assign for homework.

Day 3



Learning Plan

continued

Day 3:

1. Allow time to finish up sheet 2.
2. If sheet 4, Think Qs, was not assigned for homework, allow time to do that now.
3. Discussion:
 - Start with questions about their spreadsheets. What did they do with formulas?
 - How else can a spreadsheet be used? What other formulas do you think you would need?
 - Ask Think Qs questions.

Learning Plan

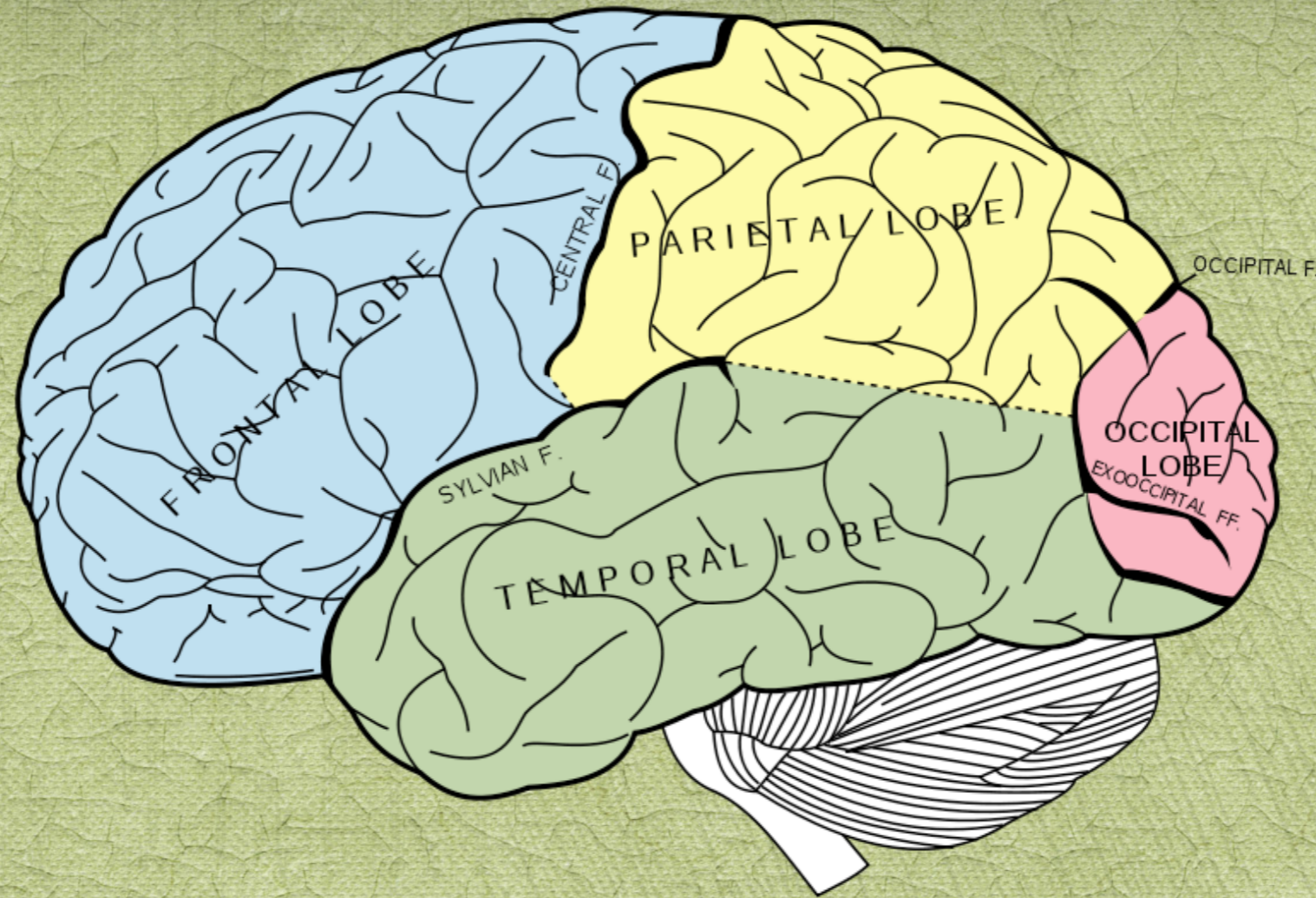
continued

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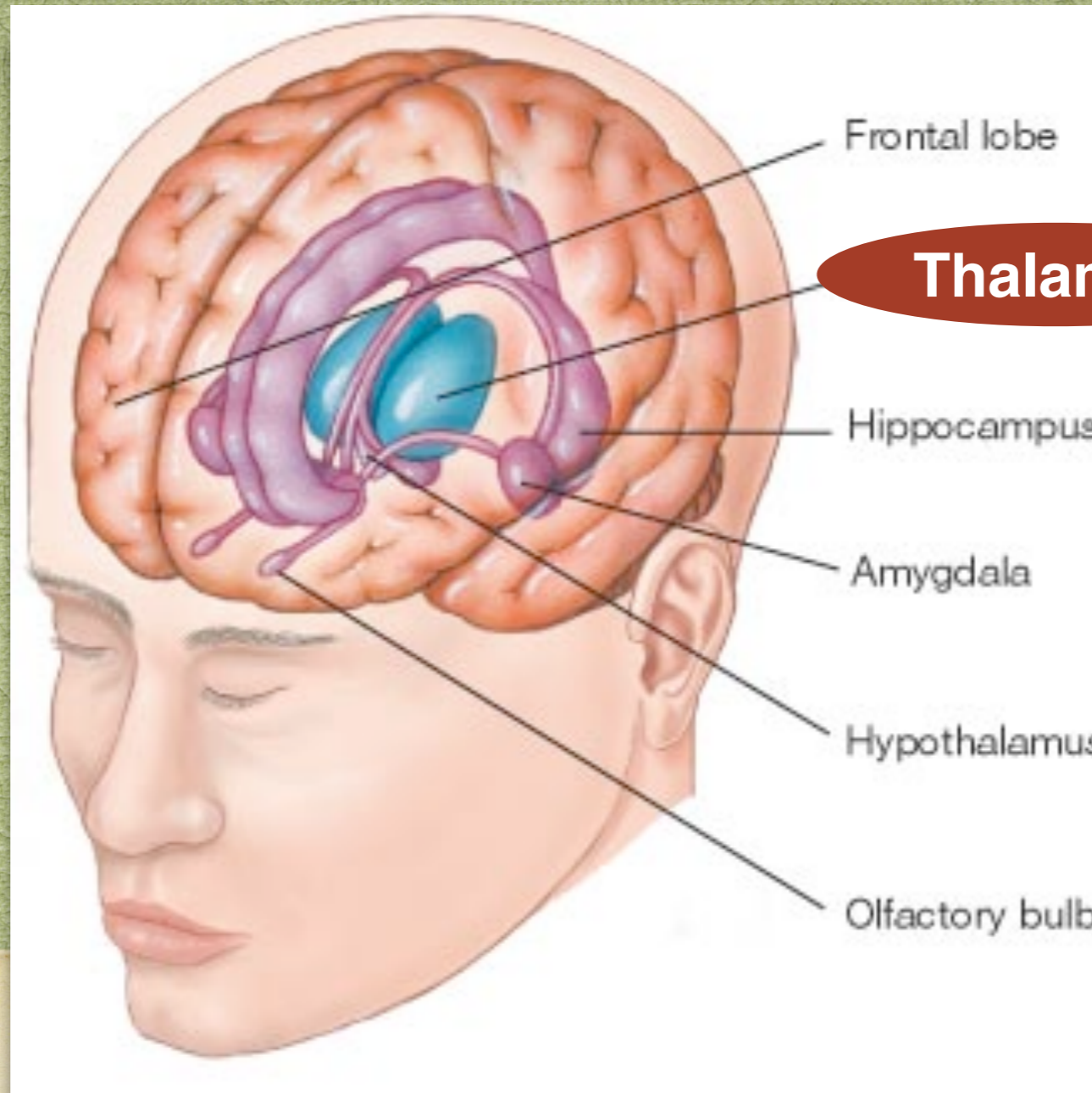
Brainy bits





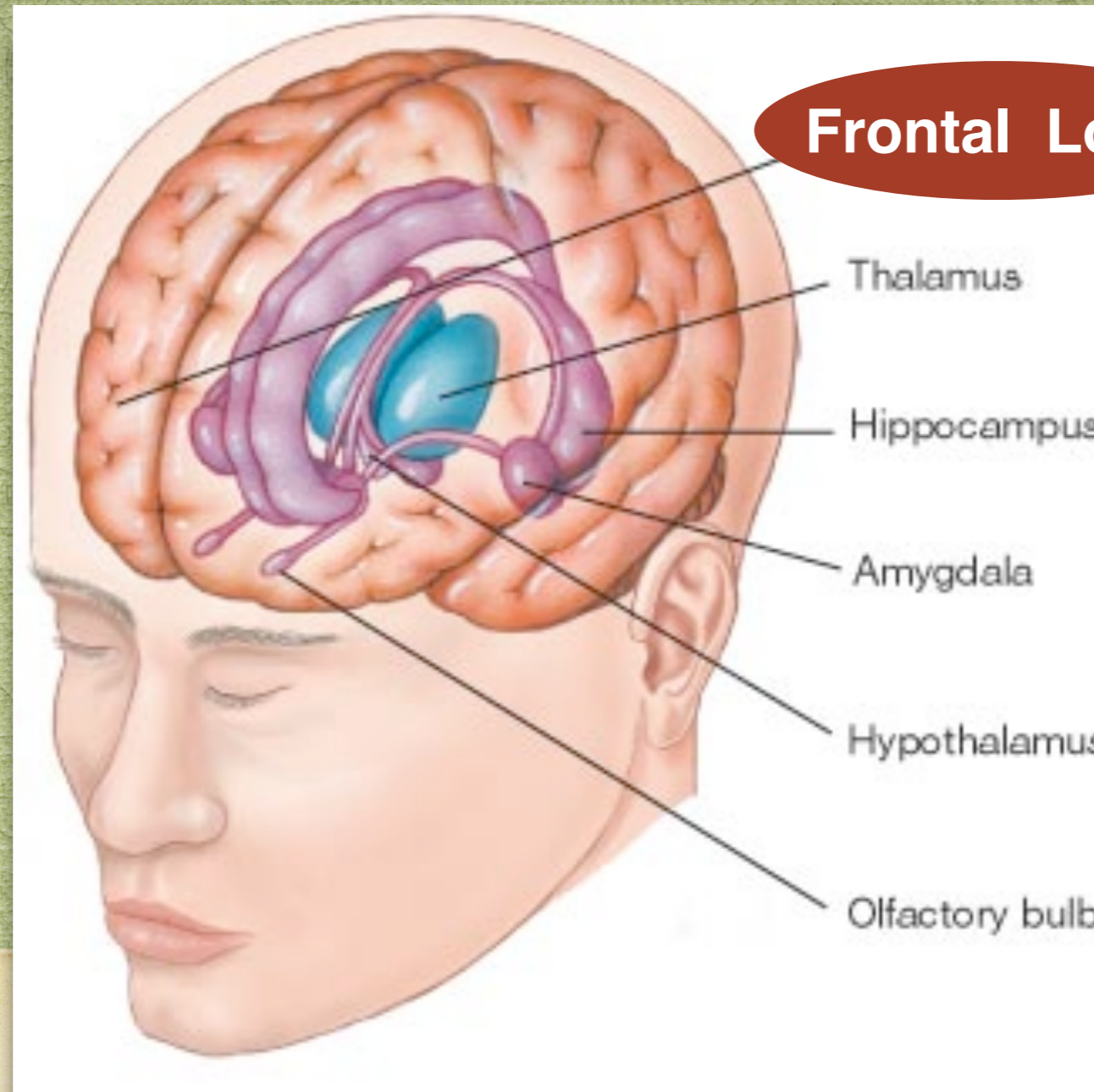
Brainy Bits

What's happening in the brain?



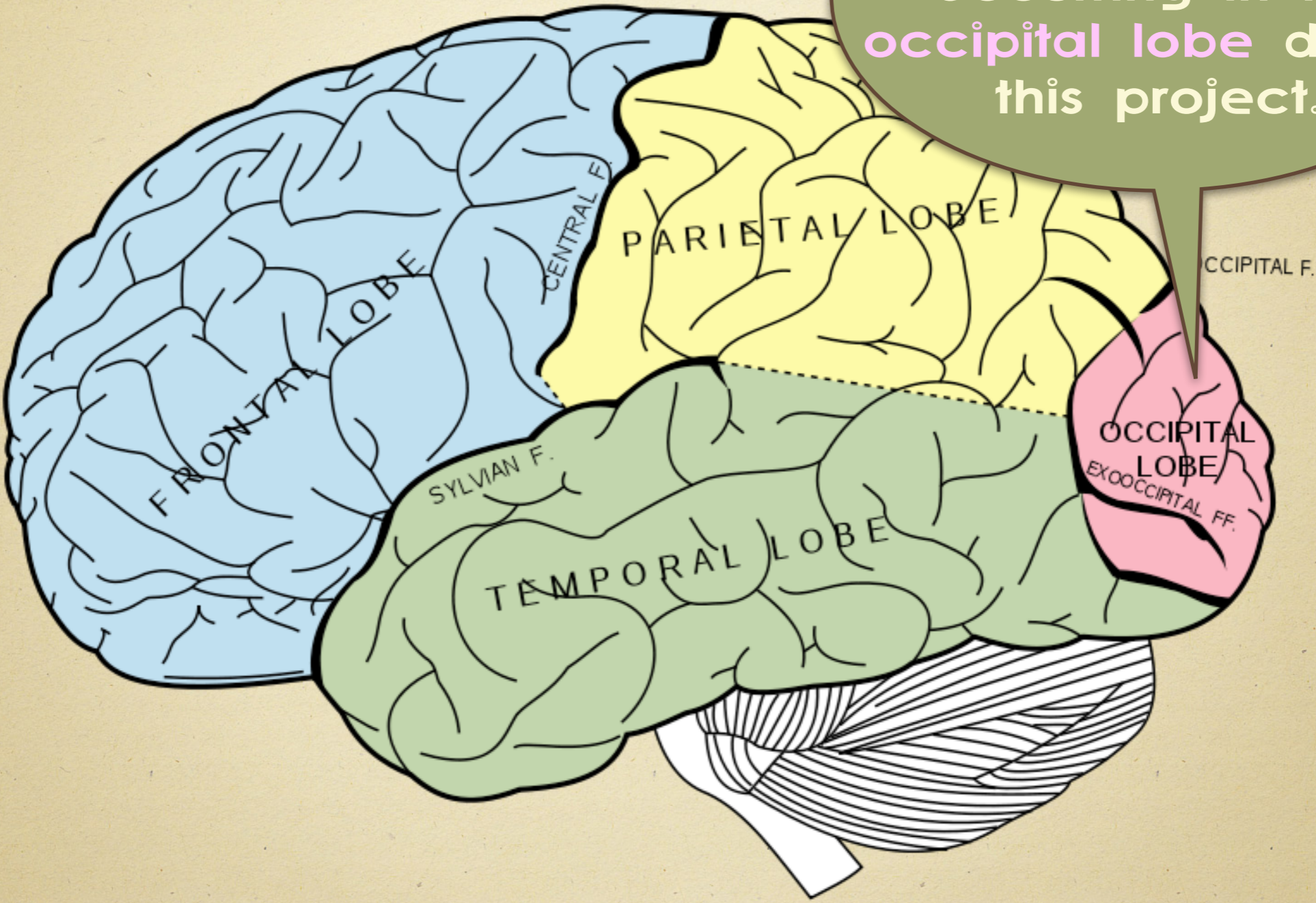
Thalamus

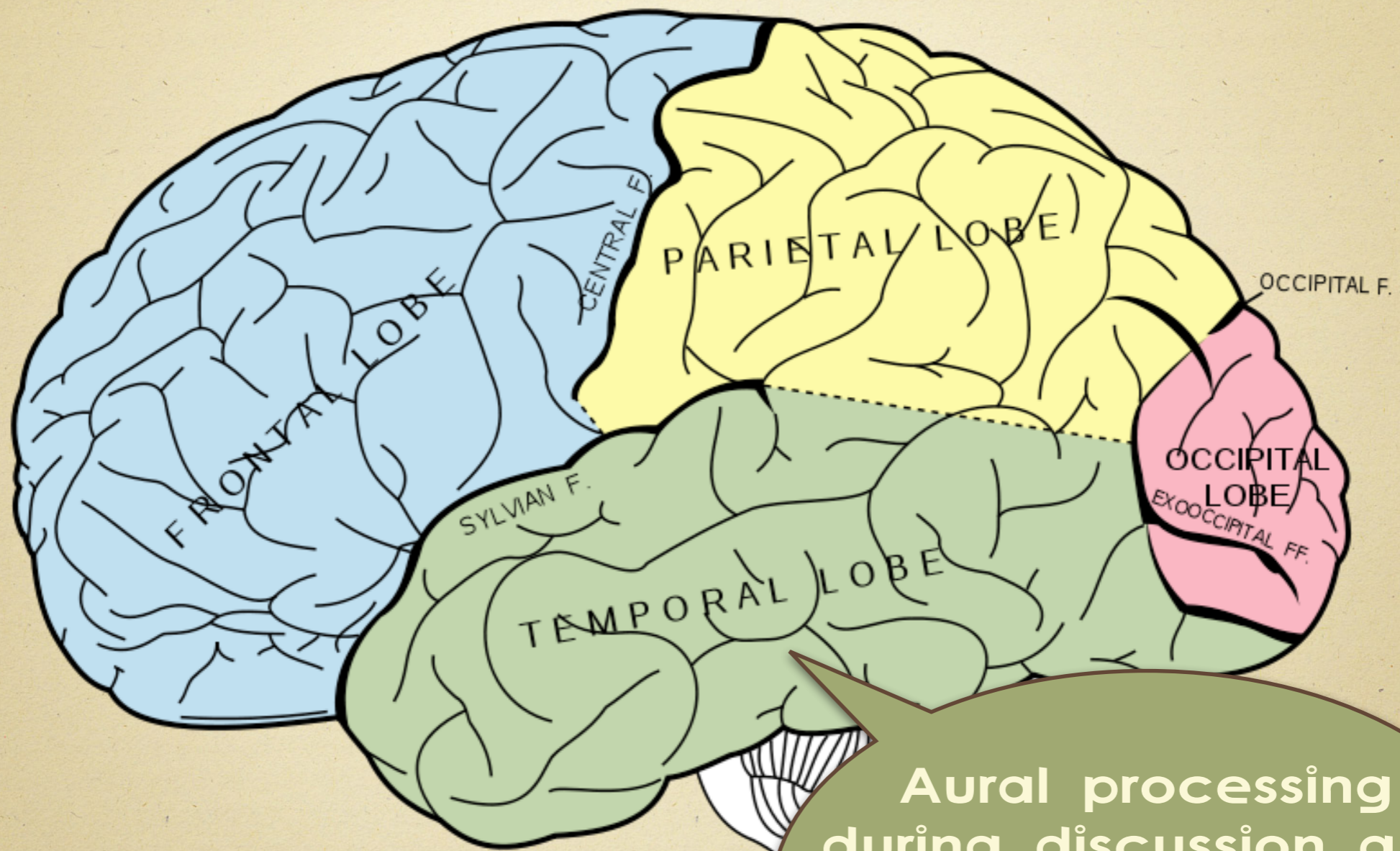
As the students approach this activity, the thalamus, which is the sensory gate, allows the information to be sent to immediate memory.



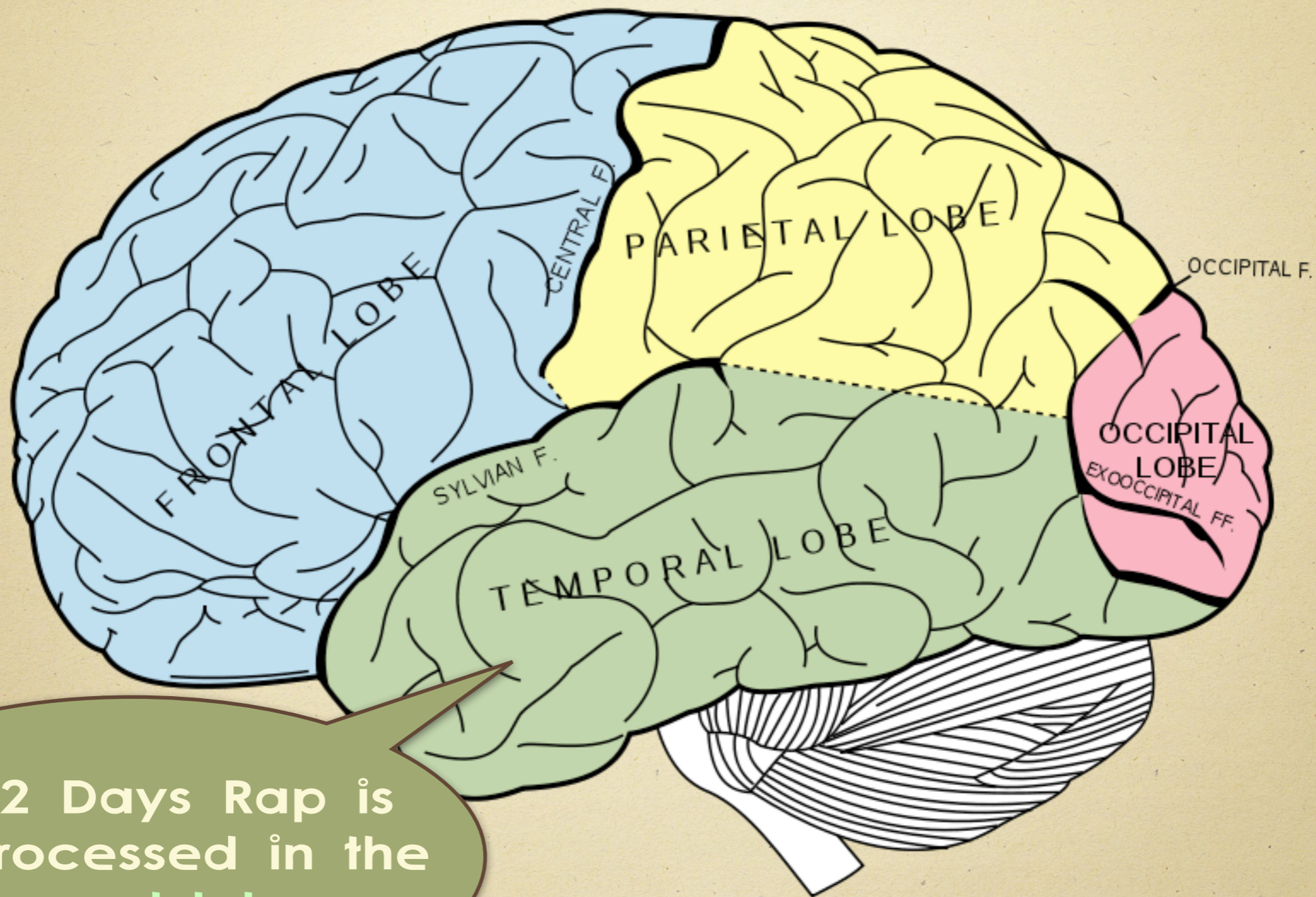
The fun and non-threatening activity allows the information to be passed along to the working memory in the frontal lobe.

Lots of visual processing is occurring in the **occipital lobe** during this project.



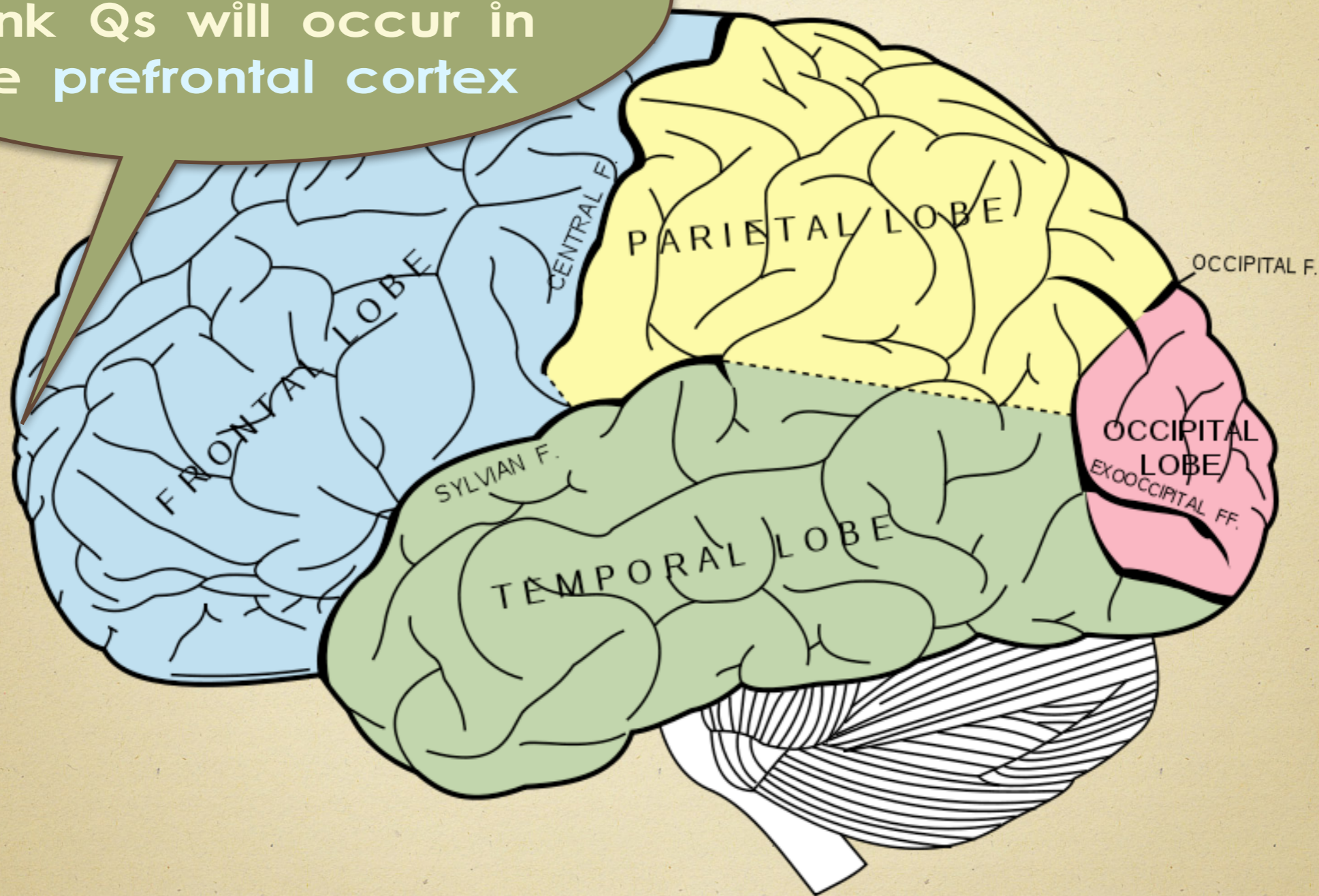


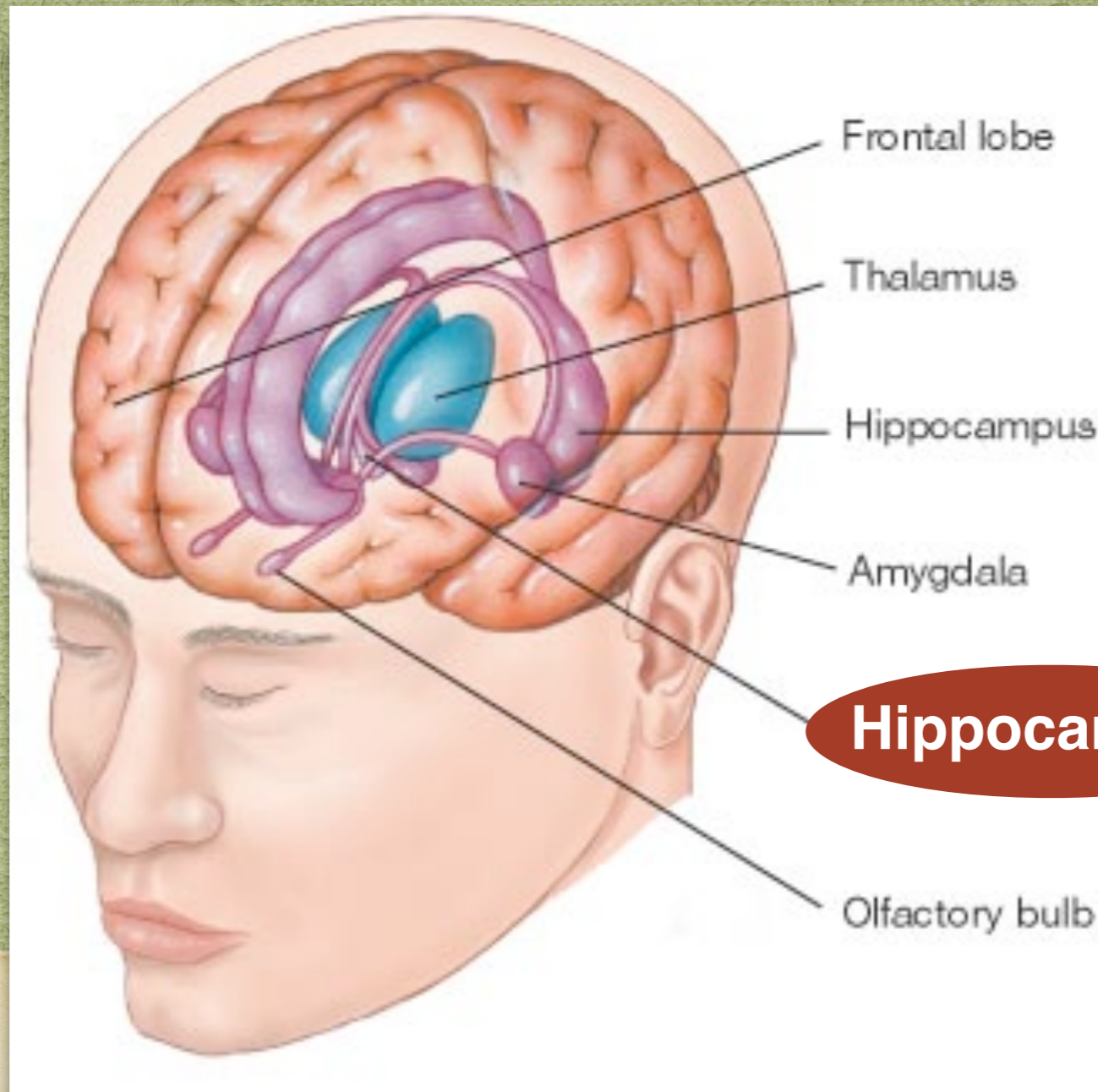
Aural processing during discussion and partner collaboration is happening in the **temporal lobe**



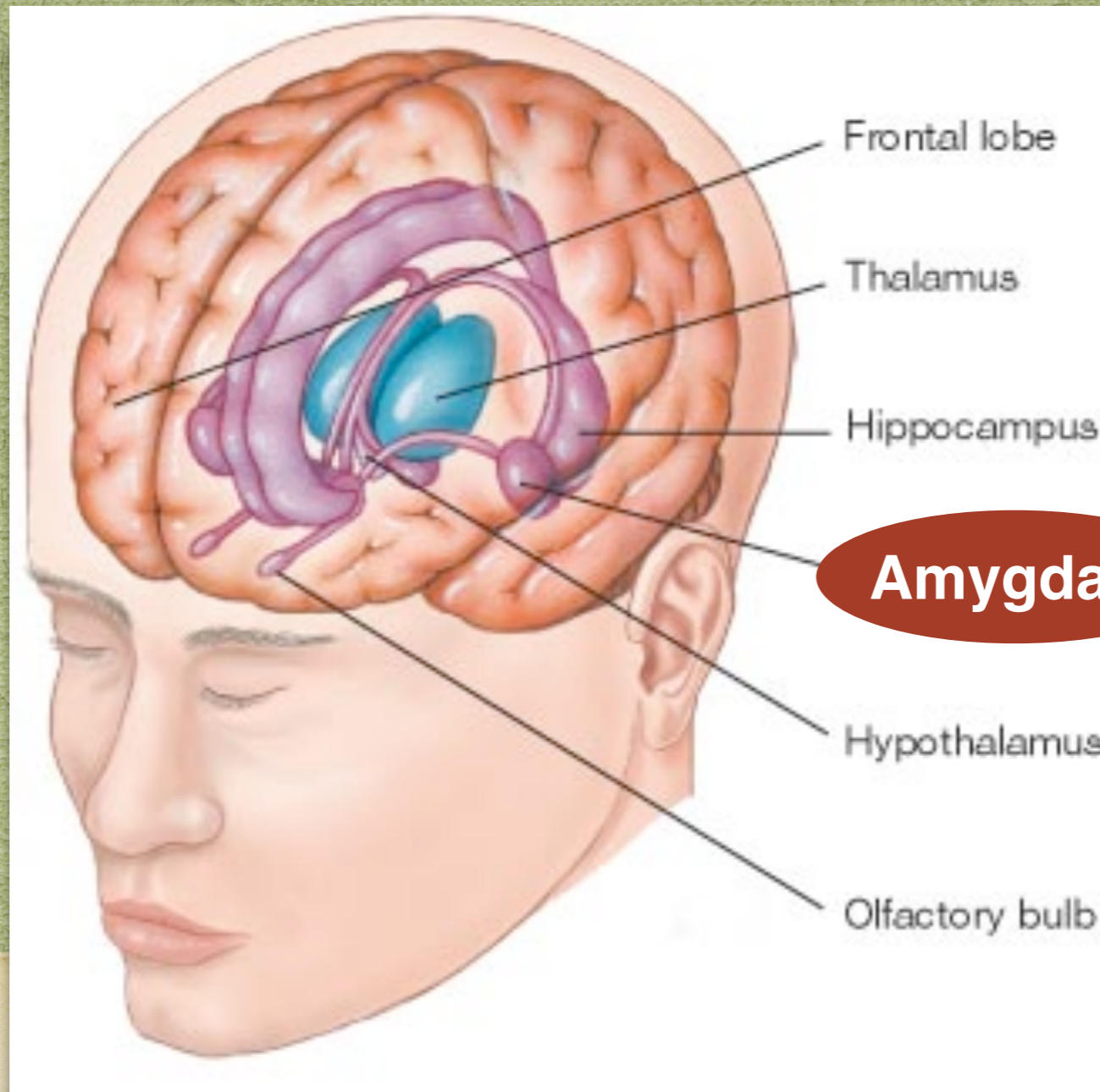
The 12 Days Rap is also processed in the temporal lobe.

Working the formulas
and thinking through the
Think Qs will occur in
the prefrontal cortex





Continuing the activity over 3 days, allows overnight encoding by the hippocampus during sleep. Review and synthesis on the last day will strengthen the transfer of the new learning into long term memory.



Finally, the collaboration and fun of looking for “gifts” will allow the amygdala to encode a good emotional message with the memory as it goes into long term memory.



**Multiple
Intelligences
Addressed**



**Multiple
Intelligences
Addressed**

**The whole
spreadsheet
process**

The chart and changes in it



The whole spreadsheet process

Multiple Intelligences Addressed

The chart and changes in it



Working with a partner

Multiple Intelligences Addressed

The whole spreadsheet process

Multiple Intelligences Addressed



The chart and changes in it

Working with a partner

Think Qs

The whole spreadsheet process

12 Days of 6th Grade Rap

Working with a partner

The chart and changes in it



Think Qs

The whole spreadsheet process

Multiple Intelligences Addressed

Bloom's Taxonomy

Evaluation

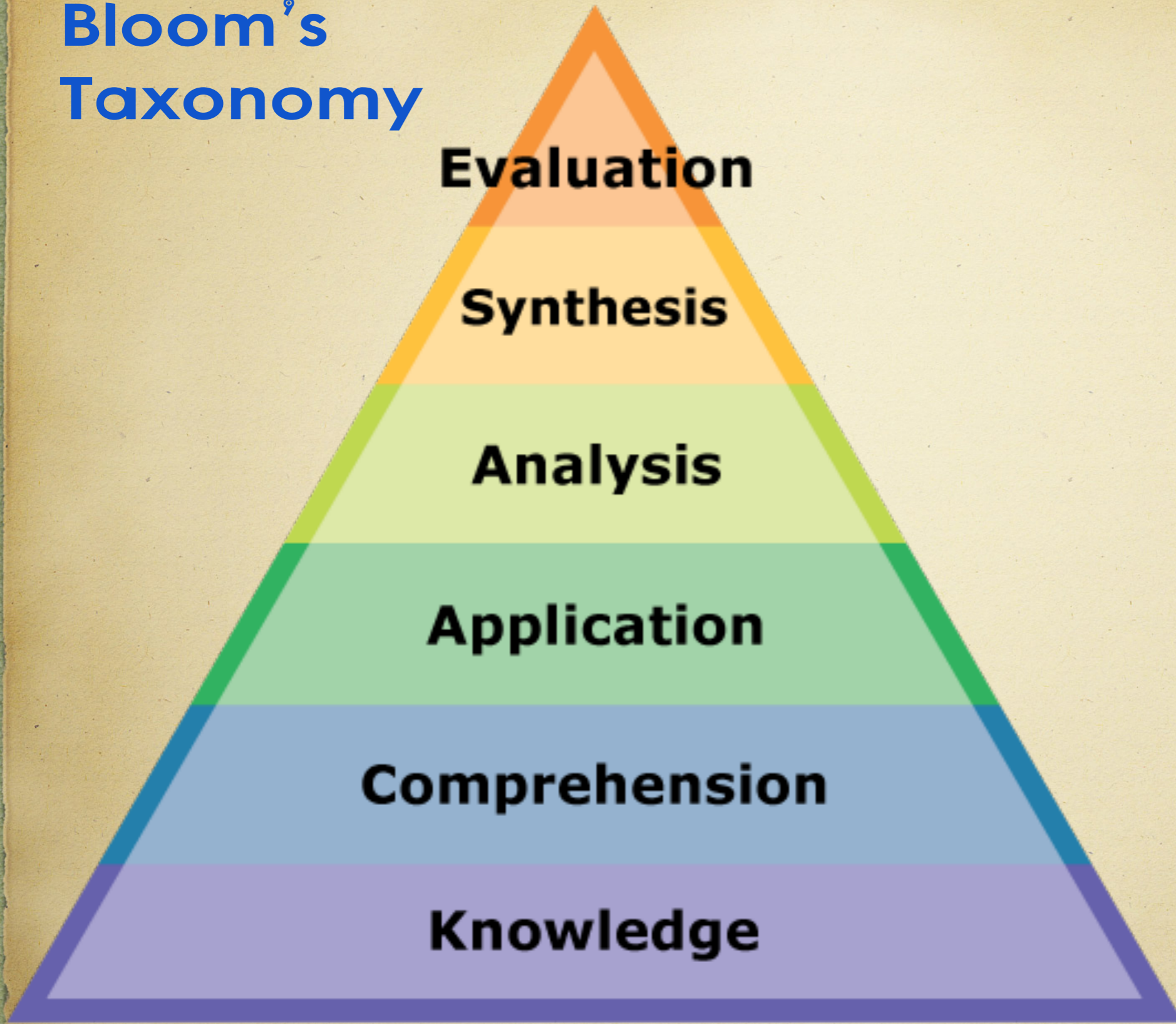
Synthesis

Analysis

Application

Comprehension

Knowledge



Bloom's Taxonomy

Evaluation

Synthesis

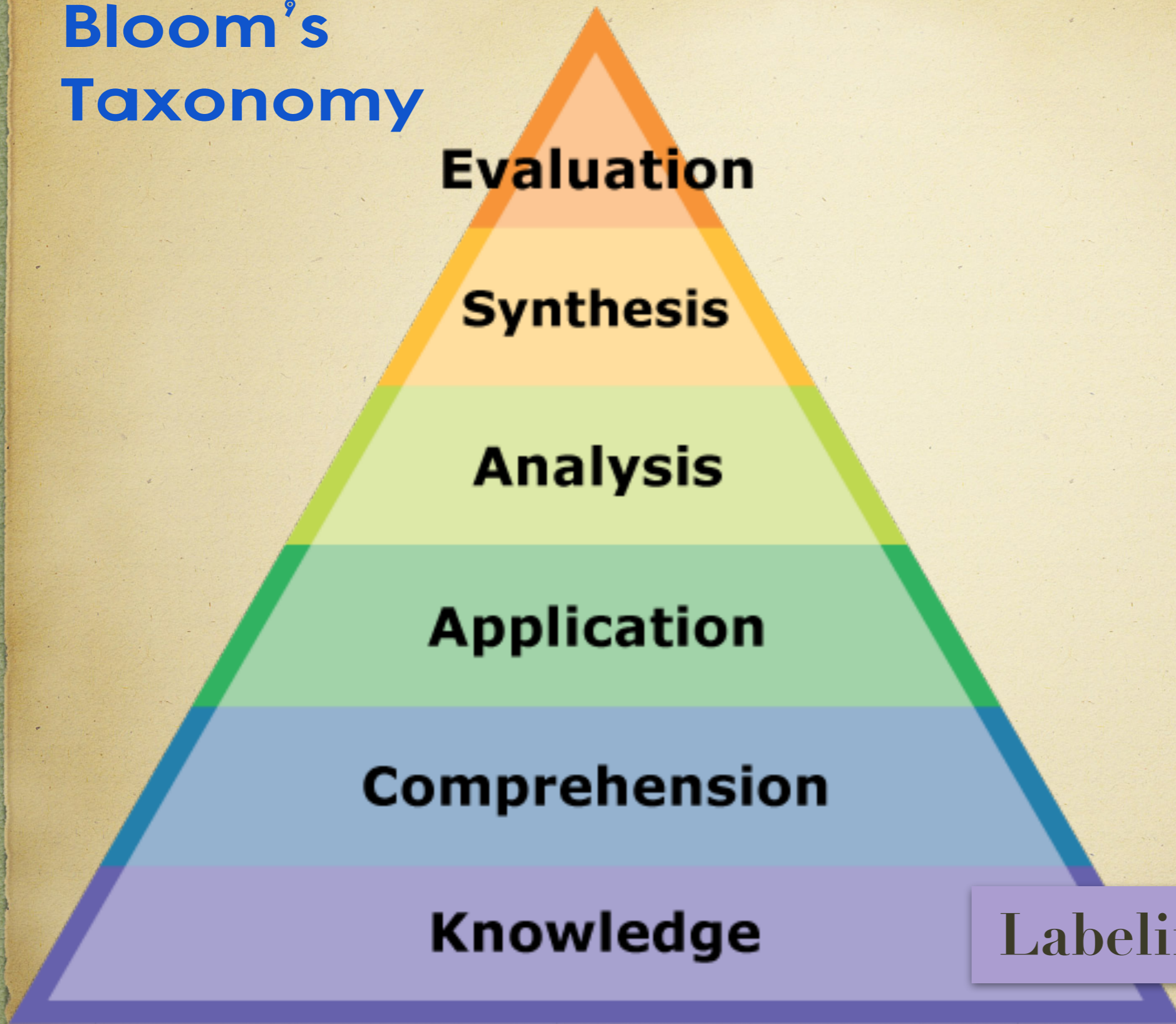
Analysis

Application

Comprehension

Knowledge

Labeling spreadsheet



Bloom's Taxonomy

Evaluation

Synthesis

Analysis

Application

Comprehension

Knowledge

Converting rap to GS

Labeling spreadsheet

Bloom's Taxonomy

Evaluation

Synthesis

Analysis

Application

Comprehension

Knowledge

Applying formulas

Converting rap to GS

Labeling spreadsheet

Bloom's Taxonomy

Evaluation

Synthesis

Analysis

Application

Comprehension

Knowledge

Comparing prices,
finding best unit price

Applying formulas

Converting rap to GS

Labeling spreadsheet

Bloom's Taxonomy

Evaluation

Explaining, writing,
summarizing in Think Qs

Synthesis

Comparing prices,
finding best unit price

Analysis

Applying formulas

Application

Converting rap to GS

Comprehension

Labeling spreadsheet

Knowledge

Bloom's Taxonomy

Evaluation

Interpreting and supporting
in Think Qs

Synthesis

Explaining, writing,
summarizing in Think Qs

Analysis

Comparing prices,
finding best unit price

Application

Applying formulas

Comprehension

Converting rap to GS

Knowledge

Labeling spreadsheet

Learning Styles



Auditory



**Tactile/
Kinesthetic**



Visual



Learning Styles



Auditory

Partners,
discussion



**Tactile/
Kinesthetic**



Visual



Learning Styles



Auditory

Partners,
discussion



**Tactile/
Kinesthetic**



Visual



Chart,
Technology

Learning Styles



Auditory

Partners,
discussion

Puzzle, tech
hands-on

**Tactile/
Kinesthetic**



Visual

Chart,
Technology





Google Spreadsheet

Basic Skills used in this Project

Sheet 2 of Completed Google Spreadsheet

Header using merged columns

Frozen Rows (1-4) to keep header in view

Fill series used

Built-in SUM formula

Formula using cell references on same sheet

pt. 6 font formatted

Hyperlinks

Grand total for one student **\$2,144.02**

Conditional formatting

↓ Check out the pie chart on sheet 2 to see what your spending looks like!

12 days of 6th Grade																
Pete Pupil & Sarah Student																
Item that you	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	# of items	Cost per item	Total Cost	
1 pair of running shoes	1	1	1	1	1	1	1	1	1	1	1	1	12	\$58.50	\$702.00	
2 pair of scissors		2	2	2	2	2	2	2	2	2	2	2	22	\$5.47	\$120.34	
3 rulers			3	3	3							3	30	\$0.89	\$26.70	
4 glue sticks				4	4							4	36	\$5.11	\$183.96	
5 number two pencils					5	5	5	5	5	5	5	5	40	\$0.40	\$16.00	
6 Sharpie markers						6	6								\$34.44	
7 ink pens							7								\$335.58	
8 composition books															\$99.60	
9 erasers									9	9	9	9	36	\$1.99	\$71.64	
10 3-ring binders										10	10	10	30	\$5.99	\$179.70	
11 AR books											11	11	22	\$7.19	\$158.18	
12 backpacks												12	12	\$17.99	\$215.88	

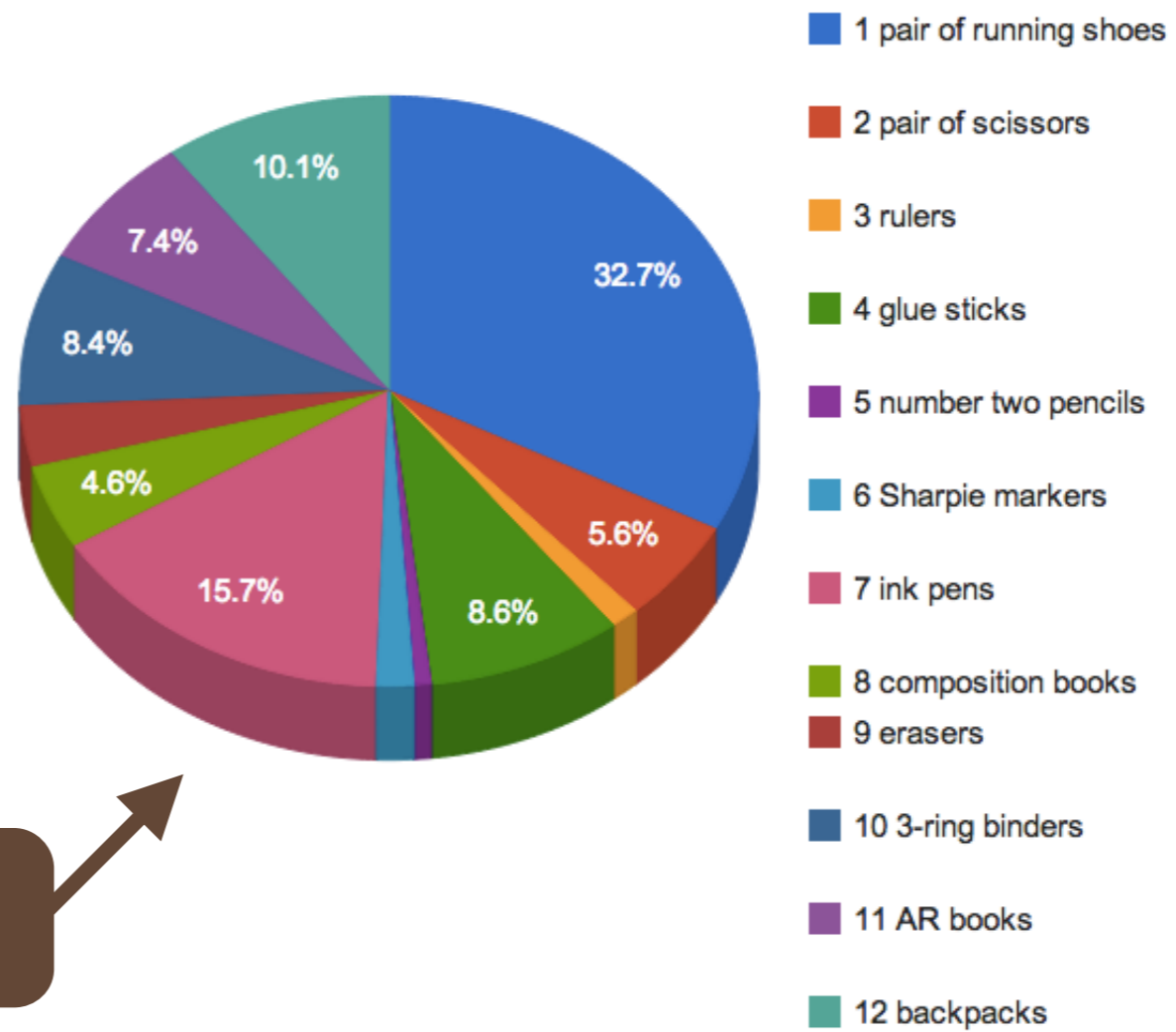
- Use the following sites to try to find the best prices:
- [Amazon](#)
 - [Zappos\(shoes\)](#)
 - [Staples](#)
 - [Foot Locker](#)
 - [OfficeMax](#)
 - [Target](#)

Add 20 more rows at bottom.

Sheet 3: Pie Chart

	A	B	C	D	E	F	G	H	I
1	Item	Amount needed to pay for each item for all 12 days							
2	1 pair of running shoes	\$702							
3	2 pair of scissors	\$120.34							
4	3 rulers	\$26.7							
5	4 glue sticks	\$183.96							
6	5 number two pencils	\$16							
7	6 Sharpie markers	\$34.44							
8	7 ink pens	\$335.58							
9	8 composition books	\$99.6							
10	9 erasers	\$71.64							
11	10 3-ring binders	\$179.7							
12	11 AR books	\$158.18							
13	12 backpacks	\$215.88							

Visualize It – What Part of the Total Cost is each Item?



Formulas using cell references across different sheets

Pie chart for visualization of the data

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