Name:	Date:		
In this activity you are	going to utilize the functions of the handheld TI-Nspire TM		
calculator. Open up the I	nterest-compare.tns file by pressing the C key. Select 6:MY		
	the file, and press . Figure 1 shows what the Interest-		
compare.tns file looks like	when it is open on your TI-Nspire™ handheld.		
1.1 1.2 13 14 PRAD AUTO REAL Dep and Forget What happens when you deposit \$1000 in a bank account at a fixed interest rate for the life of the account? Is simple interest or compound interest better? Does time really matter?	Initial Problem: Thinking it through Q1: Read the opening screen and make a conjecture based upon the first page of problem one. (1.1)		
Q2: What tools/methods	s/technologies could you use to make such a comparison?		
Problem #1.2: Calculation	ns		
1. Move to page 2	of problem 1 and insert a value for the rate. This value should alue between zero and ten with at most two decimal places.		
Rate =	<u> </u>		
2. / e to move to	the calculator screen and perform the indicated calculations.		
Problem #1.3: Setting up	<u>for the visual</u>		
	3. Move to page 3 of problem 1. Consider what data would go in columns A and B. Label your columns accordingly using one letter abbreviations where able.		
Column A =	=		
Column B =			
4. Place your data	from 1.2 into the spreadsheet.		
Q3: Do you see a patter	n? Describe the pattern in terms of the variables used.		

Name	• •	Date:
Q4: neighb	-	pattern. If you do not see the pattern/rule, speak with your
5.	new value for this	nd use the excel commands to create a formula to obtain the cell. Do not forget to type "=" to let the handheld know ormula. Move to cell B4 and do the same.
A	1 rule =	
	l rule =	
6.	Repeat this proces paste to repeat the	s for two more rows. Don't forget that you can copy and formulas.
Using	the Fill down function	1
✓	Move up using the Na	vPad cursor control until A1 is boxed in.
✓	Press the $g^{\mathbf{x}}$ at the sa column.	me time. This will highlight the first two cells in the A
	Press b 3: Data and 3: Move down using the	Fill Down NavPad until the highlighted border is in cell A10.
	Press the • to fill the c Repeat for column B	olumn.
Proble	em #1.4: A visual	
7.	Use page 1.4 to creget a better view o	eate a visual of the data. Don't forget to use Zoom-Stat to f the data.
Q5: proble		re of your visual. Be sure to include the context of the
8.	Insert a new calcul	lator page and perform an appropriate regression. Graph the new function. Press /C, 2: EDIT, and 7: Insert
1: File 2: Edit 3: Back 4: Forward	An AUTO REAL 1: Undo (Ctrl+Z)	Page.
5: Page Sc 6: Page La 7: Select A 8: Delete	orter (Ctrl+1) 4: Copy (Ctrl+C) yout 5: Paste (Ctrl+V) App (Ctrl+K) 6: Delete	Q6: Write your equation. Comment on the fit your equation.
→ ℝ <i>f1</i> ()	-14.32 x)=	
		<u> </u>

Name:	Date:
Problem #2.1	1: Compound Interest
int	ove to the next problem and repeat the process above for a compound terest situation. Be sure to keep the rate the same. Answer the following testions based on your discoveries.
Use the same	single variables but place a c before it so that you will recognize it later.
Column A	<u> </u>
Column E	B ==_
Q7: Do yo	ou see a pattern? Describe the pattern in terms of the variables used.
Q8: Devel neighbor.	op a rule for the pattern. If you do not see the pattern/rule, speak with your
A4 rule =	
B4 rule =	
Q9: Comm problem.	nent on the nature of your visual. Be sure to include the context of the
Q10: Write	your equation. Comment on the fit your equation.

Name:	Date:
Problem#3: Putting it together	
compound interest function into f(2).	simple interest function into f(1) and your Graph both and respond to the initial problems. tools of the handheld assist you in analyzing the e in context.

Name:	Date:

Screen Shots

