



ACTIVITY 1

INTERESTED IN BANKS

Banks pay interest on money in savings accounts so your money grows.

- Earning interest on interest is called Compound Interest.
- Interest calculated on the original principal only is called Simple Interest.

NiE Man has saved \$1000 and wants to deposit the money in a bank to earn some interest. Help him decide which bank to invest with from these advertisements he found in the newspaper.

Calculate how much interest NiE Man will earn if he deposits his money in each of these banks for a year.
Which bank should NiE man bank with?

4.8%
1 year fixed term deposit

*calculated on annual compound interest

WOW/BANKING

1 year fixed term deposit at 6.9%
* interest calculated monthly based on original principal

1 year fixed term deposit
8.5%
* Simple Interest calculated quarterly

4.2%
One year fixed term

compound interest calculated monthly



ACTIVITY 2

IS IT SIMPLE?

How does Simple Interest Work?

Simple interest is calculated on the **original principle only**.
Three things are needed to calculate simple interest.

Principle - the amount put into the bank

Rate - the percent

Time - how many years the money is in the savings account at the bank.

The formula for calculating interest is very simple:

$$\text{Simple Interest} = \text{Principle} \times \text{Rate} \times \text{Time (in years)}$$

If NiE Man deposits \$250 in a bank offering a 5% interest rate for one year he would earn:- $250 \times 5\% (0.05) \times 1 = \12.50

Try these

1. \$ 5 000 deposited in a bank offering 8% interest for two years.
2. \$200 000 deposited in a bank offering 3.5% interest for one year.
3. \$ 10 000 deposited in a bank offering 6.2% interest for three years.

From the logos shown, name these Australian banks.
List them in alphabetical order.





ACTIVITY 3 THERE'S MORE INTEREST

How does Compound Interest Work?

NiE Man places an amount of money (the starting principal) into an account. The bank agrees to pay him a set percentage of the investment (the interest rate) at regular intervals (the interest period). The interest period might be daily, monthly or yearly. When paid, the interest is added to the starting principal to form a new starting principal for the next interest period.

Try this

If NiE Man invested \$1000 at an interest rate of 7% he would earn \$70 in the first year. This \$70 is added to the original principle and reinvested for another year. At the end of the second year the interest will be more as shown on this table. Complete the table to see how much interest NiE Man would earn after 5 years.

Year	Principle	Interest rate (7%)	Balance
1	\$1000.00	\$70.00	\$1070.00
2	\$1070.00	\$74.90	\$1144.90
3	\$1144.90		
4			
5			

Investigation

Look for advertisements in your newspaper of banks promoting their products like interest rates. Cut them out and make a class display of different advertisements. Choose which one you think is the best advertisement and explain why?



ACTIVITY 4 WORDS AT WORK

In Wordy News this week we defined the word SCEPTICAL which was used in the following way:



The word sceptic, sceptical and scepticism are all related. Choose which word best fits into the following sentences.

The scientific _____ will not accept anything without evidence.

I was somewhat _____ that the movie would live up to the book it was based on.

She was a _____ when it came to playing the lottery as she didn't think she would have a chance.

When the teacher reads assignments with university level vocabulary he is _____ that it was written by a high school student.

Many people have expressed _____ over the government's plan to sell off assets.

The judge in the case was _____ about who owned the land.

The older generation has some _____ about the latest technology.

Clients of the bank were _____ about the claims that the bank was not making any profit and therefore had to close branches.



ACTIVITY 5 CHECK IT OUT Dinosaur Quiz

As a warm up for the quiz try answering these questions using the information from the featured dinosaur cards. You can find these on your newspaper's website. Click on the dinosaur and enter at your own peril.

1. What does the name Tyrannosaurus Rex mean?
2. Which dinosaur could hold their breath up to half an hour?
3. Why did the Allosaurus's teeth point backwards?
4. Was the Diplodocus a carnivore or herbivore?
5. Name two dinosaurs that belong in the Pterosaur (flying reptile) family?
6. Which dinosaur's name means Emperor Dragon?
7. Which dinosaur had a back sail with a spine 1.5m long?
8. How many of the featured dinosaurs were 10 meters or more in length?
9. Which dinosaurs had the largest skull of any land animal to ever live?
10. How many metres tall is the sixth story window the Sauropseidon is looking through?



ACTIVITY 6 NEWS IN THE SPOTLIGHT

According to an analysis by Grattan Institute Higher Education, universities will have to charge students more a year to maintain current funding levels when deregulation comes into play in 2016.

- Fees for engineering and science students would rise by 58.7 per cent.
- Nursing and teaching students face fee increases of at least 19 per cent and 23 per cent respectively.
- Fees would rise by 43 per cent for social studies students and by 42 per cent for agriculture students.

Use the 2014 base rate of \$6044 per year to calculate the 2016 fees for these courses. Use these figures to add to the graphic below.

