

# LITERACY

Throughout the lesson make a notes of words meaning

Increase	Decrease

Stick Cheque here!



## Important information

(Look at the board and note the following for your bank)

Bank:

Investment amount:

Interest rate:

Multiplier:

## Simple interest

- 1) How much money do you have after 1 year?
- 2) How much profit did you make after 1 year?
- 3) How much money did you make after 2 years?  
(\*hint\* 2 x profit + cheque amount)

## SKILL 1

## Compound interest

How much money did you make after 2 years?

$$\boxed{\phantom{000}} \times \boxed{\phantom{000}} \times \boxed{\phantom{000}} \text{ Time (month/years)}$$

Cheque amount                      multiplier

## SKILL 2

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Calculator display  
 $100 \times (1.05)^3$

Power button



Mary buys a car for £2500. It depreciates at a rate of 7% per year.

### SKILL 3

How much could she sell it for after 1 year?

$$2500 \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$$



How much could she sell it for after 5 years?

$$2500 \times \boxed{\phantom{00}}^{\boxed{\phantom{00}}} = \boxed{\phantom{00}}$$



How much could she sell it for after 20 years?



2) A bank pays 3% interest on money in its accounts. Charlie deposits £180.

a) How much will he have after 7 years?

b) How much will he have after 15 years?

3) A building society pays 12% interest on money in its accounts. Abigail deposits £50.

a) How much will she have after 3 years?

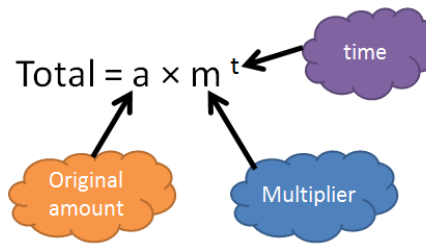
b) How much will she have after 9 years?

4) Mr Johnson buys a new car for £50 000. The car decreases in value at the rate of 30% each year.

a) Find the value of the car after two years.

b) Find the value of the car after eight years.

## MEMORY



### Examination Questions

## STRETCH

1) The polar ice cap in the Arctic is 4 metres thick. If the ice is thinning at a rate of 6% per year, how thick will the ice be in 5 years time?

2) When a tennis ball is dropped, it bounces and then rises. The ball rises to 60% of the height from which it is dropped. The ball is dropped from a height of 2 metres.

(a) Calculate the height of the rise after the first bounce.

.....m  
(1)

(b) Calculate the height of the rise after the second bounce.

.....m  
(1)

The ball carries on bouncing, each time rising to 60% of the last rise.

(c) For how many bounces does it rise to a height greater than 20cm? Show your working

.....  
(2)

#RAG123

Today I have learnt how to