

Y10 Percentages and Interest



What do I need to be able to do?

By the end of this unit you should be able to:

- Convert and compare FDP
- Work out percentages of amounts
- Increase/ decrease by a given percentage
- Express one number as a percentage
- Calculate simple and compound interest
- Calculate repeated percentage change
- Find the original value
- Solve problems with growth and decay

Keywords

Exponent: how many times we use a number in multiplication. It is written as a power **Compound interest:** calculating interest on both the amount plus previous interest

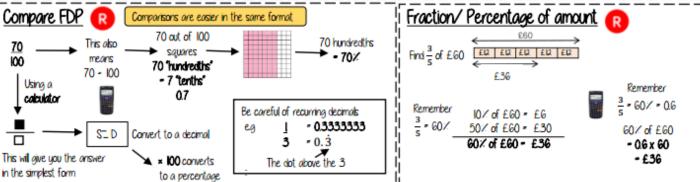
Depreciation: a decrease in the value of something over time.

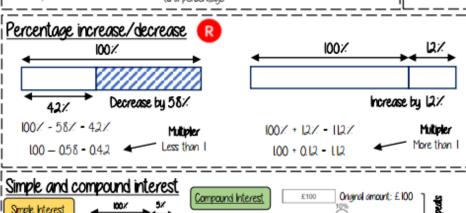
Growth: where a value increases in proportion to its current value such as doubling.

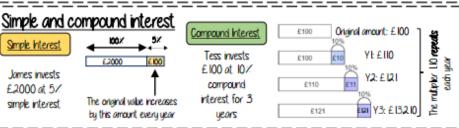
Decay the process of reducing an amount by a consistent percentage rate over time.

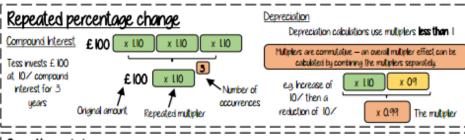
Multiplier: the number you are multiplying by

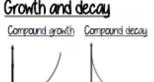
Equivalent: of equal value.











Compound growth and compound decay are exponential graphs <u>Decay</u> — the values get closer to 0 The constant multiplier is less than one

Growth — the values increase exponentially The constant multiplier is more than one

