## **INTEREST**

How does interest impact finances?

## What is interest?

## Why does interest exist?

What is compound interest?

How can we calculate interest? If \$0.93 is in the bank at 2.25% for 1000 years how much is it worth?

$$0.93(0.0225) = 0.0209 = 0.02$$
 $0.95(0.0225) = too long$ 

$$0.93(1.0225) = 0.95$$

After 100 years

Exponential growth

$$0.93(1.0225) = 8.60$$

Interest rates are annual but are rarely charged at end of year. Most common rate is monthly. This called compound interest.

In general,

## Minimum payments

Credit card companies require borrowers to make minimum payments. Why would they do this?