

### I) WHAT IS A PERIODIC FUNCTION?

- A function that repeats
- The range of input values within a cycle is
- There are many examples of periodic functions in our world
  - Ocean waves and ocean currents
  - Solar system
  - Finance and Market trends
  - · Sound waves, light transmission, radiation
  - Wave propagation: earthquakes,
  - Heart beat

II) COMPONENTS OF A PERIODIC FUNCTION:



Crest:	
Trough:	

Amplitude:

Period:















