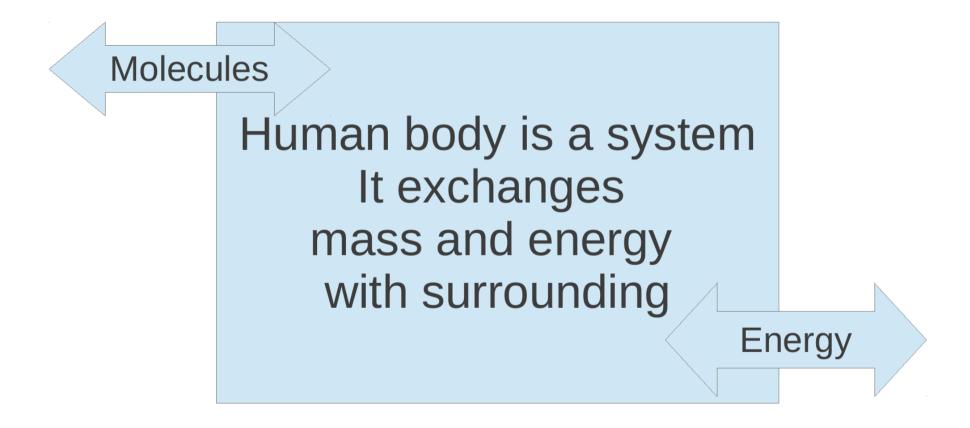
### **Body as a system (Part-1)**

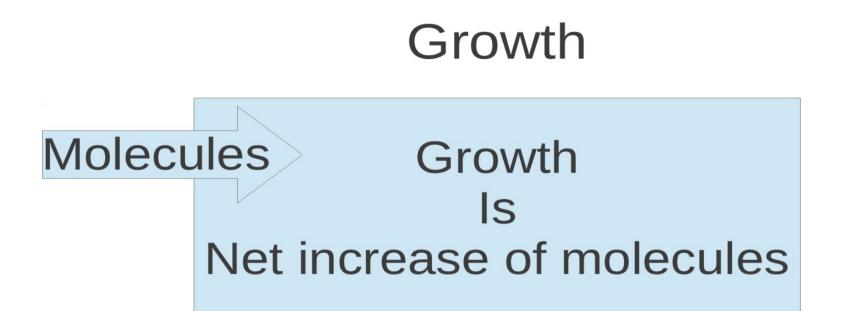
### **Dr S M Patel**

### What is a system?

### Body is a system



## When does the system mass increases?



#### Embryo, Growing Child, Body Building, recovery from illness

## When does the system mass decreases?

### Degeneration

Degeneration Molecules Is Net loss of molecules



## When does the system energy increases?

### Photons are used by human body

Quantitatively Not important for human body

Energy

#### Synthesis of Vitamin D Retina absorbing light **Plant uses energy to form Glucose**

# When does the system energy decreases?

### Body makes net energy output

#### Heat energy Kinetic energy



Heat

### energy output we can not do



#### Electric fish

Firefly

