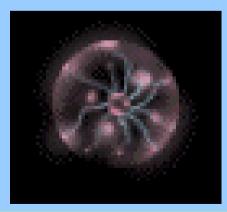
•Kinetic Energy (K) – Energy of Motion

•Potential Energy (P) – Stored up Energy

•Total Energy (T)– Kinetic plus Potential Energy





#### •Kinetic Energy (K)– Energy of Motion





#### •Kinetic Energy (K)– Energy of Motion

No Kinetic Energy





#### •Kinetic Energy (K)– Energy of Motion

Which ball has more Kinetic Energy?





#### •Kinetic Energy (K)– Energy of Motion

Less Kinetic Energy

More Kinetic Energy





# **Energy** •Kinetic Energy (K) – Energy of Motion K=1/2 m v^2 **Less Kinetic Energy More Kinetic Energy**

If the lower ball is moving twice as fast, how much more kinetic energy does it have?

#### •Kinetic Energy (K)– Energy of Motion

Which ball has more Kinetic Energy?





#### •Kinetic Energy (K)– Energy of Motion

#### **Less Kinetic Energy**

**More Kinetic Energy** 





# •Potential Energy (P) – Stored up Energy Potential Energy

#### **Potential Energy**

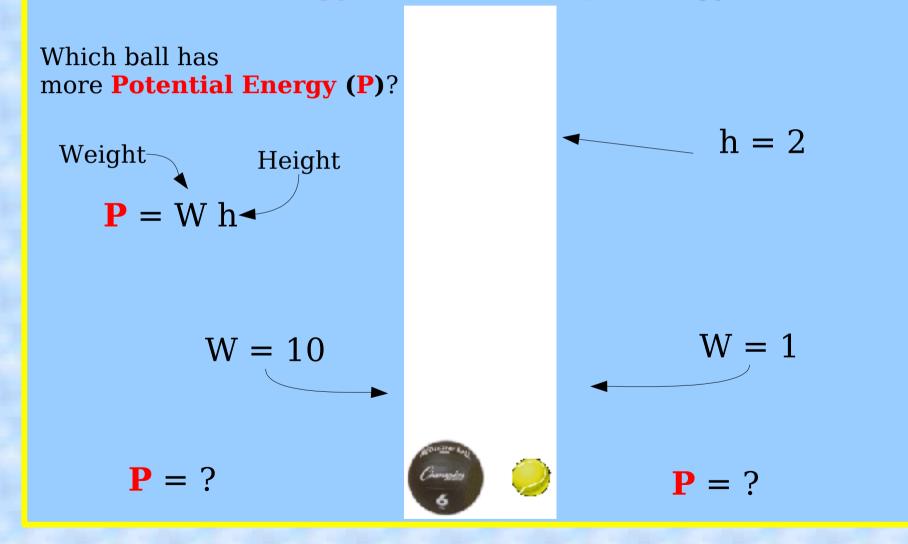
**Potential Energy** 

**Potential Energy** 

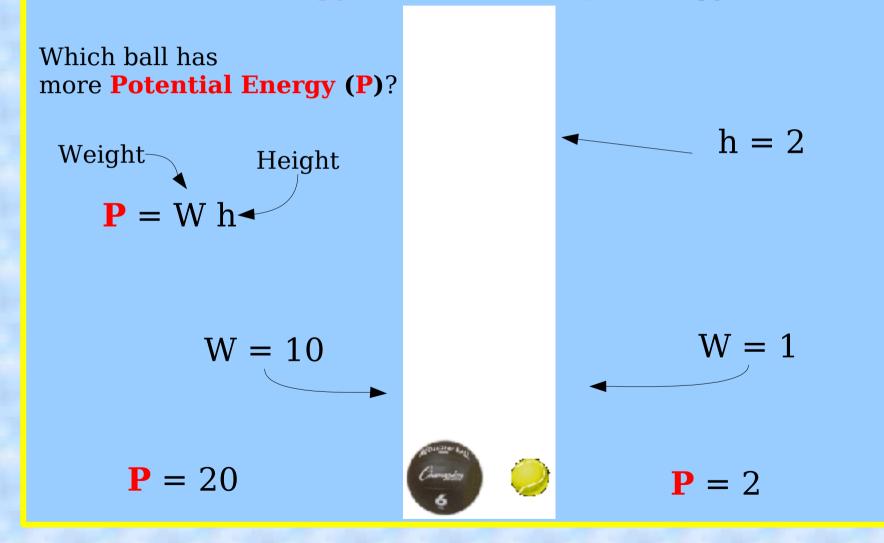


**Potential Energy** 

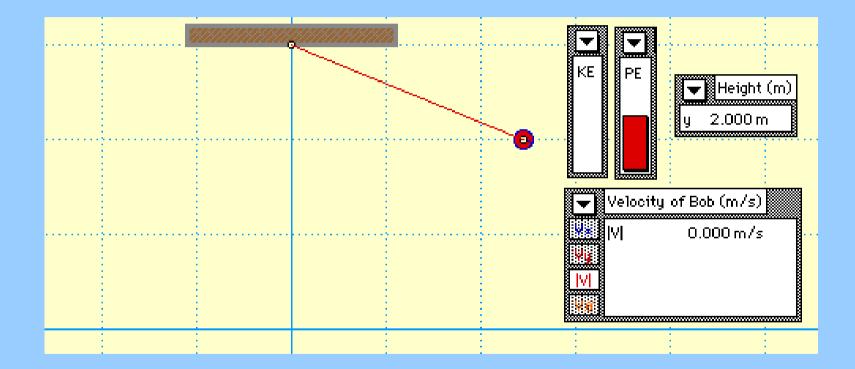
#### •Potential Energy (P)– Stored up Energy



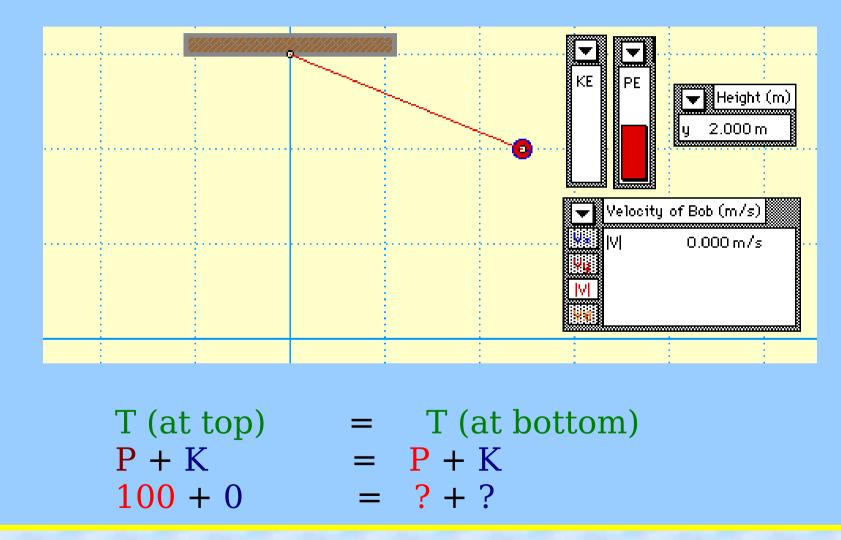
#### •Potential Energy (P)– Stored up Energy



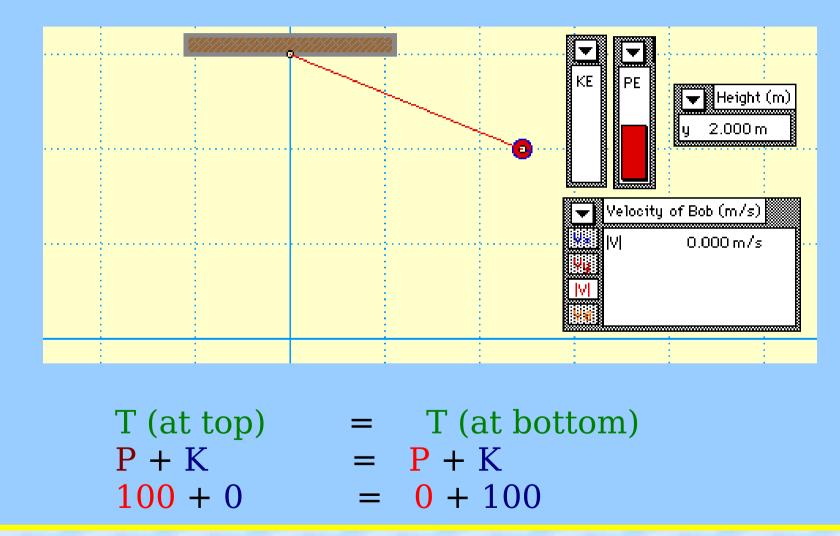
#### •Total Energy – Kinetic plus Potential Energy



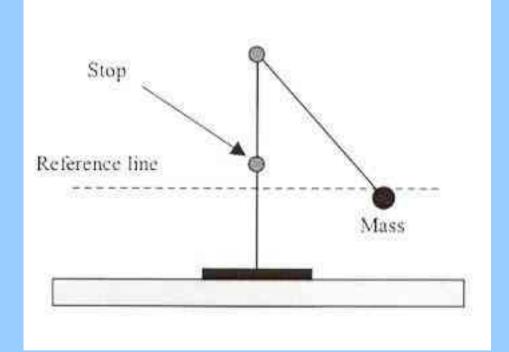
#### •Total Energy – Kinetic plus Potential Energy



#### •Total Energy – Kinetic plus Potential Energy

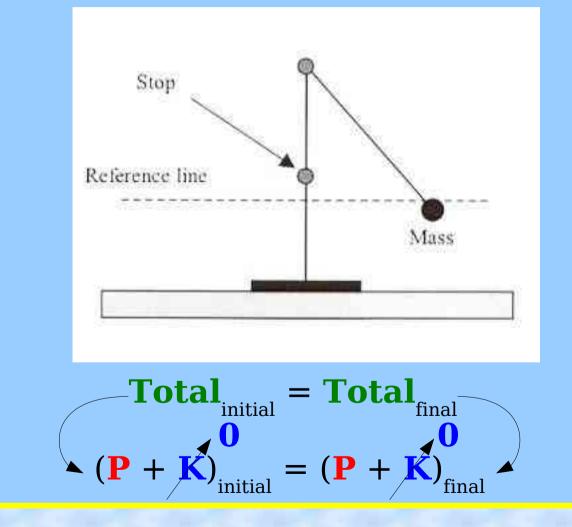


#### •Total Energy – Kinetic plus Potential Energy

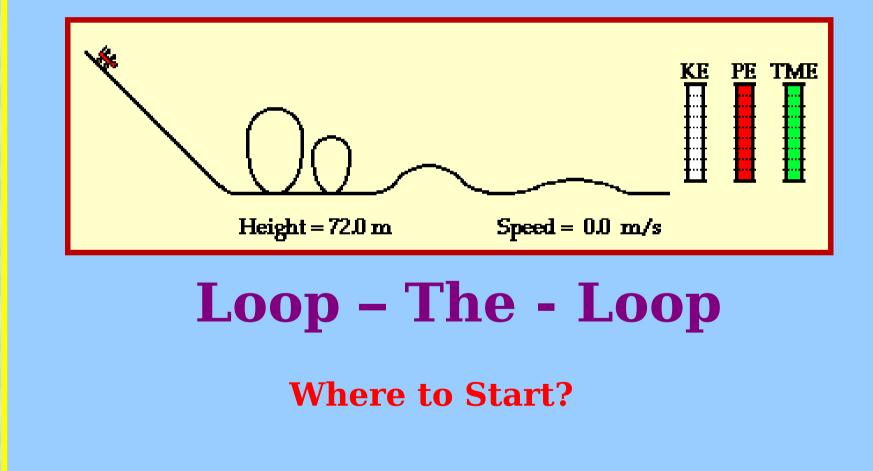


### How high will it go?

#### •Total Energy – Kinetic plus Potential Energy



#### •Total Energy – Kinetic plus Potential Energy

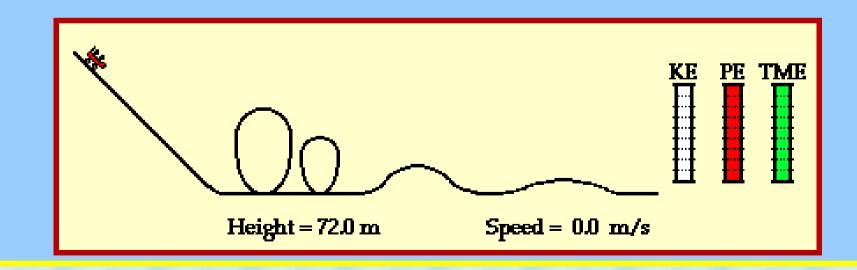


#### •Total Energy – Kinetic plus Potential Energy

# **The Bomb!**

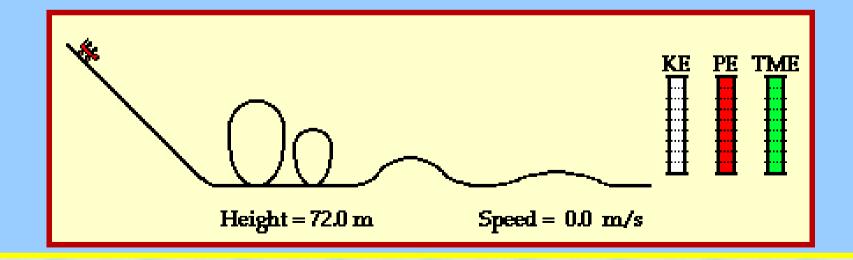


#### •Kinetic Energy – ???



#### •Kinetic Energy – Energy of Motion

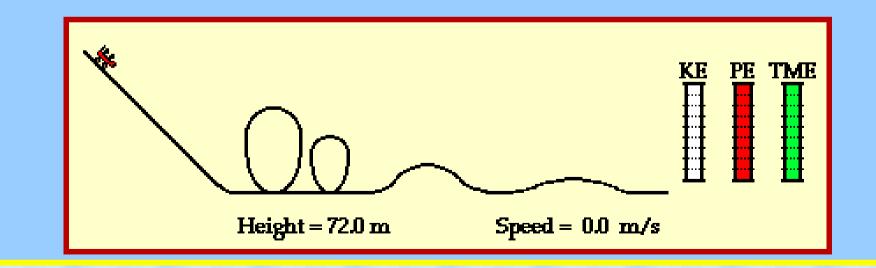
•Potential Energy – ???



•Kinetic Energy – Energy of Motion

•Potential Energy – Stored up Energy

#### •Total Energy – ???



•Kinetic Energy – Energy of Motion

•Potential Energy – Stored up Energy

•Total Energy – Kinetic plus Potential Energy

