

PHYSICS  
Projectile Motion

• **What is a Projectile?** *(It's a flying object!)*

An object that is projected by a \_\_\_\_\_ and continues by \_\_\_\_\_.

• **Projectile Motion**

- An object that is projected without gravity – just goes straight.
- \_\_\_\_\_ projected objects in gravity curve downwards.
- \_\_\_\_\_ projected objects in gravity go straight up, then straight down.
- \_\_\_\_\_ projected objects in gravity curve upwards, then downwards.
- The curve of a projectile is always a \_\_\_\_\_ !
- **Question: Which hits the ground first, a bullet fired or a bullet dropped simultaneous to the firing? \_\_\_\_\_.**



• **Big Bertha**

In WWI this gun was found by following the \_\_\_\_\_ of her projectile motion.

Weight of a 100 lb person		Escape Velocities in mph	
Moon	16	Moon	5,000
Mercury	38	Mercury	9,600
Mars	38	Mars	11,000
Venus	91	Venus	23,000
Earth	100	Earth	25,000
Uranus	90	Uranus	50,000
Neptune	119	Neptune	56,000
Saturn	108	Saturn	80,500
Jupiter	234	Jupiter	135,000
SUN	2,436	SUN	1,400,000