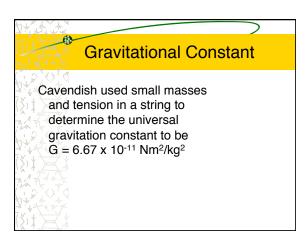
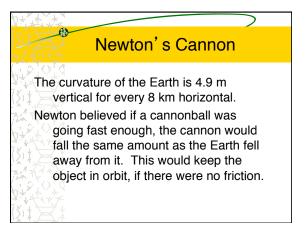
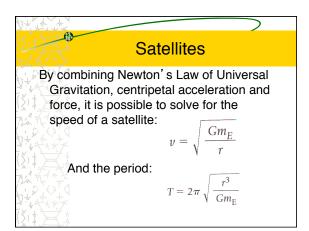


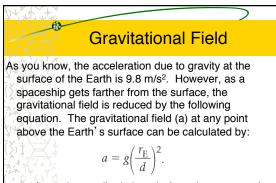
Universal Gravitation	
Newton, later working on the idea of gravity, said that all objects that have mass would attract one another. Thus, the force of attraction would also depend on the masses of the two objects. The following equation was developed:	
$F = G \frac{m_A m_B}{d^2}$	
However, Newton didn't know what G, his universal gravitational constant was.	



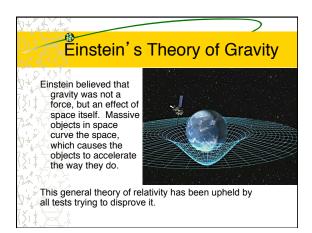








As we have talked about before, the amount of gravity is dependent on the square of the distance.



Two kinds of masses
Inertial mass is the mass of the object in relation to its motion. The inertial mass is seen when an object in the back of the truck slides backwards when the truck accelerates.
Gravitational mass is the mass of an object in relation to the mass of other objects. This mass is seen when the same object slides backwards as the truck goes up a hill.
These two masses have been proven to be equal.