

GRAVITY DROP

Name: _____ Grade&Sec: _____

OBJECTIVE: Compare the action of gravity on Earth and on the Moon.

DIRECTION: Perform the Activity "Gravity Drop" to complete the table below. Record the time of fall of each object and answer the guide question that follows.

PLACE THE OBJECT ON BOTH HANDS				BOY ON THE EARTH				BOY ON THE MOON			
Boy on the Earth		Boy on the Moon		Left hand		Right hand		Left hand		Right hand	
Object	Time of fall (s)	Object	Time of fall (s)	Object	Time of fall (s)	Object	Time of fall (s)	Object	Time of fall (s)	Object	Time of fall (s)
apple	_____	apple	_____	apple	_____	feather	_____	apple	_____	feather	_____
1 kg	_____	1 kg	_____	paper sheet	_____	ball of paper	_____	paper sheet	_____	ball of paper	_____
5 kg	_____	5 kg	_____	5 kg	_____	1 kg	_____	5 kg	_____	1 kg	_____
hammer	_____	hammer	_____	hammer	_____	apple	_____	hammer	_____	apple	_____
ball of paper	_____	ball of paper	_____	ball of paper	_____	feather	_____	ball of paper	_____	feather	_____
paper sheet	_____	paper sheet	_____	1 kg	_____	paper sheet	_____	1 kg	_____	paper sheet	_____
feather	_____	feather	_____	apple	_____	5 kg	_____	apple	_____	5 kg	_____

GUIDE QUESTIONS:

- What caused the object to fall?
Answer: _____
- What did you notice about the time of fall of an apple and a feather that is dropped on the Earth?
Answer: _____
- Why do all objects fall at the same rate of time on the moon?
Answer: _____

CONCLUSION:

On Earth, objects that are _____ or have _____ mass, fall at a _____ rate than _____ objects due to this _____ while on the Moon, all objects hit the ground _____ because of the absence of _____.