

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:

1. What caused the object to fall?
Answer: _____
2. What did you notice about the time of fall of an apple and a feather that is dropped on the Earth?
Answer: _____
3. 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 _____.