

AGENDA

- reading
- life raft graph

Exit Goal

Turn in life raft drop graph..

read page 67-69 in the Force and Motion text.



How to get and hold onto a Moon.

Answer the questions in complete sentences.:

1. What is 1 interesting fact about the moon?
2. What is one interesting fact about gravity?
3. If the earth did not have gravity what would the natural path of the moon be?

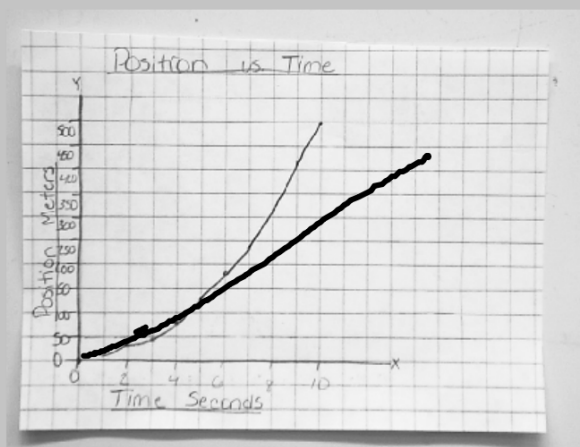
Learning target: I can describe the motion of a falling object using scientific vocabulary.

Life Raft Graph

Ocean rescues sometimes require the Coast Guard to drop life rafts to shipwreck victims. In a recent test a raft was dropped from 500 meters. The drop was videotaped.

When the tape was studied in the lab, the engineers could see that the velocity of the falling raft changed as it fell.

Does the raft fall at a constant speed?

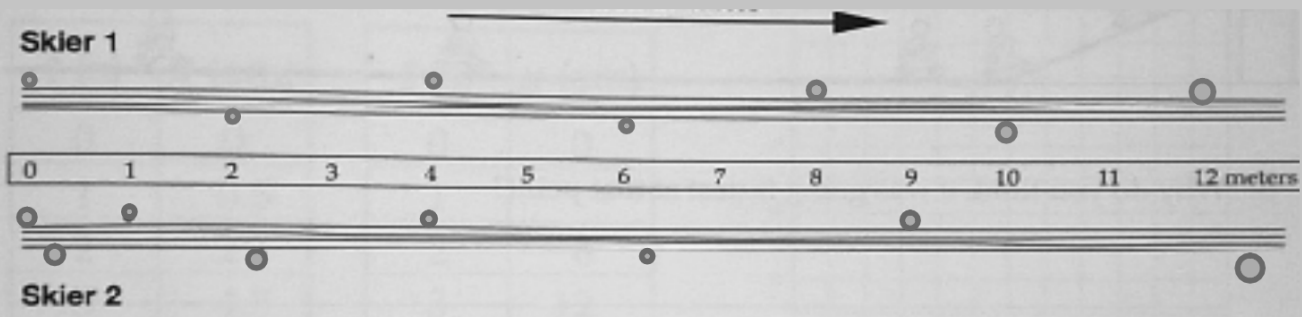


Use the data to draw a position v Time graph for the life Raft Drop.

Learning target: I can describe the motion of a falling object using scientific vocabulary.

Tape your graph into the journal and answer the questions:

1. Did the raft fall at a constant speed?
2. What caused the life raft to accelerate as it fell?
3. What caused the raft to stop accelerating?



Learning target: I can describe the motion of a falling object using scientific vocabulary.

Write the Q and H in your journals.

Question: How does the mass of an object affect how fast it falls?



Figure 1

Hypothesis:

If the mass of the object increases, the falling speed will....
because....

Learning target: I can explain why an object falls and the relationship between force and mass.

Air Resistance vs No Air Resistance

<http://www.youtube.com/watch?v=A1iff6nMPFA&feature=related>

<http://www.youtube.com/watch?v=4z8g8OSOMzY&feature=related>

Misconceptions about falling objects

http://www.youtube.com/watch?v=_mCC-68LyZM&feature=related

Learning target: I can describe the motion of a falling object using scientific vocabulary.