

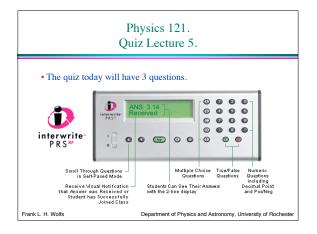


• Homework set # 2 is now available on the web.

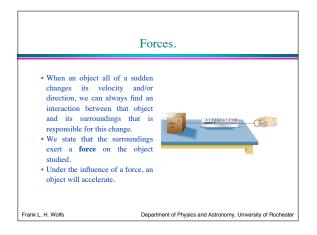
- This set will be due on Saturday morning, February 9, at 8.30 am. Do not wait until the last moment to start working on this set! By start to work on this assignments when it becomes available, you can benefit from the workshops and office hours to get help if you need it.
- We will try to respond to all course-related emails, but due to the volume of emails, we will not be able to respond instantaneously. Emails send after 5 pm on Fridays are unlikely to be answered before the homework is due.

Frank L. H. Wolfs

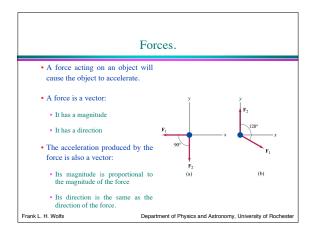
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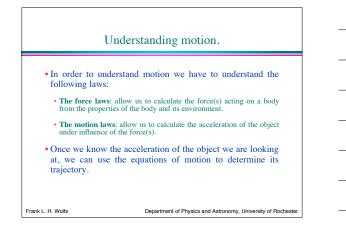


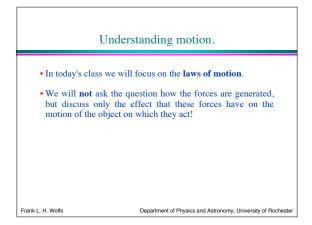


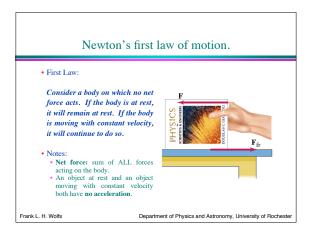


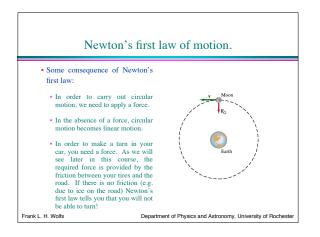




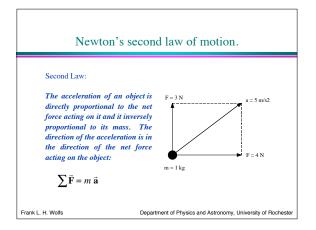










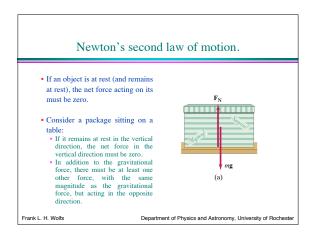


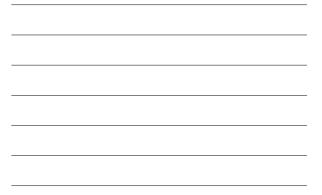


- Newton's second law is used to define the concept of force.
- \bullet The unit of force is the Newton (abbreviated by N). 1 N is also equal to 1 kg m/s^2.
- A force of 1 N is the force that will generate an acceleration of 1 m/s² when it acts on a body with a mass of 1 kg (in the absence of other forces).
- The force due to gravity acting on an object close to the service of the earth is *-mg*.

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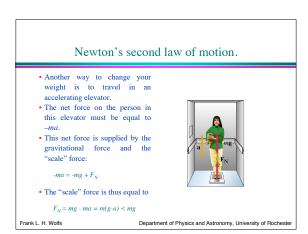


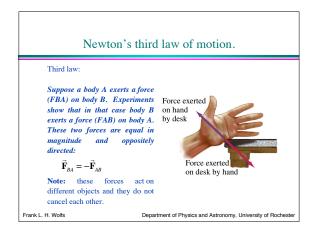
Newton's second law of motion.

Weight and Mass are not the same!!!!!!

- The weight of an object is the force of gravity. Thus, the weight of an object not only depends on its mass, but also on the gravitational acceleration. The weight of an object is thus position dependent.
- When you determine your mass, you usually measure your weight and use what is known about g to determine your mass.
- Now that we are told that we going to colonialize the moon, I can already see the adds from Weight Watchers: "All it takes to loose weight is to travel to our moon colony". Of course they are correct, but they do not tell you that you get your usual weight back when you return to Earth.

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Newton's laws of motion.

· Let's test our understanding of the laws of motion by

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Multiple Choice True/False Questions Questions

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Students Can See Their Answers with the 2-line display

looking at the following concept questions:

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• Q4.1

• Q4.2

• Q4.3

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