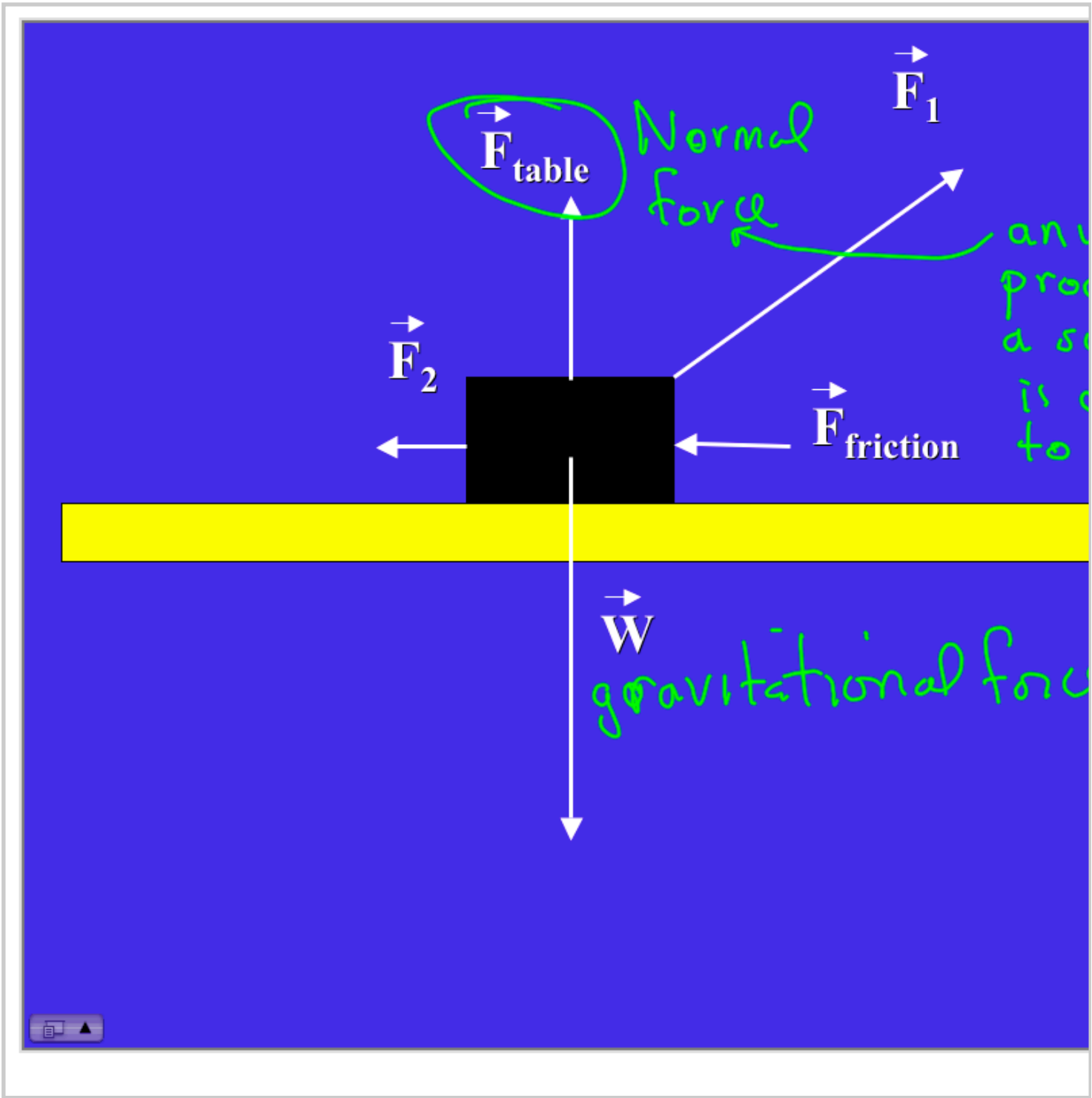


Reminders 02-04-10:

- 2nd POW due Thursday by 5PM**
- Quiz 3 Chapters 3 and 4 Today**
- Exam 1 Tuesday February 9.**

Objectives:

- Forces, Inertia, Mass, Weight, Tension**
- Newton's Laws of Motion**
- Free-Body Analysis**



Weight

Gravitational pull of Earth
on an object.

$$F = \frac{G m_1 m_2}{r^2}$$

$$G = 6.67 \times 10^{-11} \frac{\text{Nm}^2}{\text{kg}^2}$$

$$W = \left(\frac{G m_e}{R_e^2} \right) m_{\text{you}}$$

$$m_e = 5.98 \times 10^{24} \text{ kg}$$

$$R_e = 6.37 \times 10^6 \text{ m}$$

$$= \left(9.80 \frac{\text{m}}{\text{s}^2} \right) m_{\text{you}} = g m_{\text{you}}$$

Physics 4A Honors

Highly motivated students have the opportunity to receive honors credit by completing an Honors Contract. The elements of the Honors Contract include a special problem-centered project that involves some or all of the following: reading, writing, critical thinking, problem solving, research, and technical skills. It is designed to give the highly motivated student experience beyond the classroom. Generally, it will add an additional 20 percent (about 4-6 hours/week) to the course workload.

The Honors project is NOT FOR extra-credit, and WILL NOT factor into the course grade . Upon completing the honors requirements, the student's transcript will reflect a completed honors level course.

What should I do if I'm interested in Honors credit in my course?

1. Discuss your intention in receiving Honors credit with your professor.
2. Decide on a project in conjunction with your professor.
3. Fill out an Honors Contract from your instructor.
4. Submit the completed contract for review and approval by 3PM, Thursday Feb 11.

Requirement for Honors credit for Physics 4A

1. Student must receive a B or higher in the course.
2. Submit all Honors contract work by a stated deadline (about a week before the final exam).