

Physics, Preparation for Friday, Dec. 1

Read *Six Ideas* N9

Projectile motion.

Topics for Class

Big problem set this week because we had no problem set at all Thanksgiving week. In class, we can go over any problem set problems you are having trouble with. Brian will also write up and hand out the centrifuge problem doing it both ways (inertial frame and like-the-plague, non-inertial frame).

Also, Brian will prepare a theory handout to warm you up for N10, which is an incredibly important chapter, especially for quantum mechanics. Oscillation is a very interesting and important quantum mechanical problem as well as an interesting an important classical problem.

Physics Lunches

Thursdays are physics lunches. *I am very happy to do additional physics lunches any day except Monday (when I have LibCom over lunch).*

For Problem Set 11

Lotsa problems, and you can have until Saturday dinner to hand it in.

1. N7M.8, p. 117, an icy, banked road
2. N7R.2, p. 118, the rotor ride
3. N8B.3, p. 135, addition of velocity vectors, *à la* Eq. N8.2
4. N9B.7, p. 150, terminal velocity
5. N9M.5, p. 150, throwing stones from a cliff
6. N9M.9, p. 150, volcano blows chunks (but not the final step with the app)

Modern Introductory Physics — Daily Schedule Term 3

Course [home page](#)

See also: [Daily Schedule Term 2](#)

Week 8 — Using All the Conservation Laws Together — Starting Newton's Laws

- Tuesday, Oct. 24 — *Six Ideas* C14 — **For Tuesday**
- Friday, Oct. 27 — *Six Ideas* N1 — Problem Set 7 **for Friday**

Week 9 — Circular Motion — Force Laws (for gravity, for electrostatics, and for springs)

- Tuesday, Oct. 31 — *Six Ideas* N2 — **For Tuesday**
- Friday, Nov. 3 — *Six Ideas* N3 — Problem Set 8 **for Friday**

Week 10

- Tuesday, Nov. 7 — *Six Ideas* N4 — **For Tuesday**
- Friday, Nov. 10 — *Six Ideas* N5 — **For Friday**

Week 11 — Free-Body Diagrams with Multiple Objects

- Preparation for Tuesday, Nov. 14 — *Six Ideas* N6 — **For Tuesday**
- Friday, Nov. 17 — No new *Six Ideas* reading — Consolidate N1-N6 — **For Friday**

Week 12 — Non-Uniform Circular Motion

- Tuesday, Nov. 21 — *Six Ideas* N7 — **For Tuesday**

Week 13

- Tuesday, Nov. 28 — *Six Ideas* N8 — **For Tuesday**
- Friday, Dec. 1 — *Six Ideas* N9 — **For Friday**

Week 14

- Tuesday, Dec. 5 — *Six Ideas* N10
- Friday, Dec. 8 — *Six Ideas* N11

Week 15 — Final

- Tuesday, Dec. 12 — **Final**