

## 2011 JEDC Advanced Rocketry Camp Camper Information

Hello fellow rocket enthusiasts!

The Advanced Rocketry camp is just 10 days away! Here is some information about the camp that you will need prior to coming on the first day.

### Camp Location and Hours

Thunder Mountain High School. Follow the signs to the room.  
Monday-Friday, 9AM – 4 PM

### Release Forms

You MUST bring a signed release form with you the first day of camp. The form can be found [here](#). Please have a parent/guardian download it, fill it out, and bring it with you on the first day of camp.

If you are bringing any medication to the camp (for diabetes, Epipen, etc), please notify Bob.

### What we will be doing

There is no set “schedule” for the camp, but here is what we will try to get done during the week:

- Newton’s Laws of Force and Motion, with Demos
- Center of Gravity and Pressure, and Rocket Stability
- Build 2-3 rockets, 1 from a kit and 2 from scratch
- Build your own launcher and electronic launch igniter
- Launch Area Safety
- Understanding engine designations and engine selection
- Recovery methods
- Electronic staging and electronic monitoring/recovery
- Field trip to the FAA Juneau Flight Control Center and the Juneau Civil Air Patrol Hangar

### What you need to do before the camp

To make the most out of your rocketry experience, you need to do the following before the camp. If you don’t, you will be left in the rocket exhaust (dust):

- Visit the Apogee Rockets website (<http://www.apogeerockets.com/>) and look at some of the tutorials located under the Education tab.
- Load the 30-day free trial of RockSim software onto your home computer and play with the design and simulation software. There are excellent video tutorials on how to use the software on the Apogee site and I strongly suggest you view them.
- Go to the [JEDC Rocketry webpage](#) and read the pdf documents, especially the NAR Safety Code and the Estes Rocketry Primer.
- Even if you have shot rockets before, don’t assume you know everything there is to know. I have been shooting rockets for years and I still learn new things all the time. Example: which engine type will give a higher altitude: high thrust-short burn or low thrust-long burn?

### What to bring with you to the camp

- **Signed release form!**
- Lunch and a drink. We will be providing snacks and drinks during the day.
- Foul weather gear. We will be launching on several days regardless of weather, unless it is pouring rain or windy. Be prepared with the appropriate outerwear.
- If you can, bring a laptop loaded with the RockSim software.
- If you play a musical instrument bring it. Let’s have some musical fun too!

**Finally, meet on the ball field at 9 AM Monday-we will be launching some of my personal favorite rockets to start us off. If it is pouring rain, come inside instead.**

Contact me with any questions, Bob 523-2342 or [rvieth@jedc.org](mailto:rvieth@jedc.org)