COSGC – 2013 Annual Meeting

Community College of Denver
Outline

- Balloon-Sat
- Where we are going
  - Recruiting
    - Student Involvement
  - Current Ideas
- Rocket Day
Overview of Data Collected

- Pictures
- Temperature
  - Measured inside and outside
- Atmospheric Air Samples
- Zebra Fish Embryos
- Radiation
- Acceleration
- Magnetic Field vs Time
Atmospheric Air Samples

- Failed. Could not get viable samples.
Zebra Fish Embryos

- Failed. Either they were not at the right stage at launch time or they died upon return.
Radiation (particles/min) vs. Time (ms)
Acceleration (y) vs. Time Reading 1
Magnetism (x) vs. Time Reading 1

Time (ms)

Magnetism (gauss)

Series 1
Where we are going

- Conducted Recruiting Meetings
  - Excellent student turnout
  - Ideas:
    - Try the air sample again
    - Measure electromagnetic wavelengths (photon experiment)
    - Fluid statics at variable altitudes
    - Effect of high altitude and temperature on photosynthetic cells
Rocket Day

- An Outreach Program
- Students design activities to do with 4th, 5th, and 6th graders to teach them about ROCKETS!

Parameters:
- Cannot use caustic chemicals or fire
- Activities use household items
- Introduce/use the Scientific Method
- Provide handouts with background info and instructions
Development

- Brain-Storming
- Play with rocket kits
- Students research
- Build
- Test!!!
- Finalize
2013 Rocket Day
Questions?