

Educational Engagement Form

Team name: Northwest Indian College RezRiders

Date of event: 2/5/11

Location of event: Northwest Indian College

Grade level and number of participants:

9-12 (14-18 years): 9

12+ (18+ years): 4

Total: 13

Are the participants with a special group/organization (i.e. Girl Scouts, 4-H, school)? Y N

Briefly describe your activities with this group: The target audience is Native American high school youth for exposure to science, math, engineering and technology. Participants watched, discussed and learned how hollow paper tubes could fly higher, faster and straighter with a nose cone and a set of fins for direction. Participants also learned of the various phases and forces acting on a rocket in flight, while adding new vocabulary to their understanding of rocketry. Each participant personally discovered the ability to construct, arrange and successfully launch their own paper and water-bottle rocket. Additionally, all participants celebrated in the cooperative learning achievement through understanding a branch of science for which they had little or no previous knowledge or experience. The day finished with a group ceremony of individual achievement as Rocket Scientists.

Did you conduct an evaluation of your educational engagement? If so, what were the results?

Areas of Improvement

- "Make the time here (@ NWIC) longer"
- "Nothing really, had lots of fun and hope I can do this again"
- "More time"
- "Honestly can't think of anything."
- "More focus (student participation)"
- "Wait for a warmer day to go outside."
- "Have more time! And show how different types of rockets fly differently, spin, move faster, higher, etc."
- "Less focus on togetherness; it will happen on its own" – Likely in reference to team building activities
- "There is nothing that needs improving 😊"

Highlights

- "Water exploding from the bottle rockets!"
- "The bottle rockets!"
- "Launching the rockets"
- "Actually making and designing the rockets by myself"
- "Everything"
- "Making the rockets"
- "The overall building process. I really enjoyed the hands on experience."
- "Engineering and designing my own rocket"
- "I liked watching how high the rockets went"