

4-H Quest...

Science, Engineering & Technology



2009 Junior Leadership Lab For 11, 12 & 13 year olds

October 30-31, 2009
Forest Glen Campground
Huntsville, Texas

Cost: \$60.00
(includes meals, lodging, & supplies,)

Please register on 4-H Connect by October 14, 2009



Workshops

Quest in Science

As we struggle with important environmental issues, biofuels are at the front of the discussion for alternative energy sources. Biofuels are renewable sources of energy obtained from recently harvested plant materials. Using the “Biofuel Blast”, the National Science Experiment we will explore how organic materials can be converted to fuel to supply energy.

Quest in Ability

Why is it important for an archer to understand how arrows behave as they leave a bow and travel to the target? All arrows vibrate or flex when they are shot, this vibration or frequency is unique to each arrow and



relates to size, material, construction, stiffness, length and weight. If we make any change to an arrow we then change the frequency of the arrow and how it vibrates. See how

changes to these factors effect the accuracy of the arrow.

Quest in Engineering

How does the ancient catapult work? It doesn't seem like twisted rope and wooden gears or levers would be able to get up the speed to launch heavy loads. Whether their purpose was for hunting or warfare, simple catapults have earned a place within the history of man, enabling a person, through the application of science, to propel objects over distances. Discover through engineering, construction, math and physics the science of a catapult.

Quest in Technology

One of the most thrilling things to experience is a car race. The cream of the crowds, the screech of the tires, and the smell of burning rubber. National 4-H Week will take off with a speedy start on October 4, as the ‘4-H



Clover’ makes its debut appearance in a NASCAR Sprint Cup Series race on the ‘TV panel’ of the No. 24 DuPont Chevrolet driven by Jeff Gordon. At Junior Lab see if you could make it in the pit crew by making and racing your team’s car.

Agenda

Friday, October 30, 2009

5:00 –7:30 p.m.	Arrival & Check-in
6:00 p.m.	Dinner
7:30 p.m.	Opening Ceremony & Ice Breakers “Quest” Fair Inspiration
11:30 p.m.	Lights out

Saturday, October 31, 2009

7:30–8:00 a.m.	Pep Rally
8:00–9:00 a.m.	Breakfast
9:00–10:00 a.m.	First session
10:00–11:00 a.m.	Second session
11:00–11:30 a.m.	Break
11:30–12:30	Third session
12:30–1:30 p.m.	Lunch
1:30–2:30 p.m.	Fourth session
2:30–3:00 p.m.	Open (camp cleaning)
3:00 p.m.	Closing ceremony
3:30 p.m.	Depart

REGISTRATION

Participants must register via 4-H Connect online by October 14, 2009. Should you have any problems registering at

<http://texas4->

[h.tamu.edu/4hconnect/index.htm](http://texas4-h.tamu.edu/4hconnect/index.htm)

contact your local county office of Texas AgriLife Extension before the deadline.

