Chauncey Ranch Module Packages

Package A	Package B	Package C
Ice Cream Matters	Ice Cream Matters	Solar Amusement Park
Ecology Hike	Ecology Hike	*Equine Science 1 or 2
*Equine Science 1 or 2	Lego Engineering & Racers	Amazing Race
Solar Amusement Park	Low Ropes	Low Ropes
Archery	Archery	Mini Greenhouse, Seed Bursts & Food Web
STEAM Machine	Solar Amusement Park	STEAM Machine

- ONE module can be substituted from a different package to your chosen package
- Alternate activities from the list below can also be substituted for an additional cost per student
  *Equine Science 1 *must* be taken before Equine Science 2

Inclement Weather Contingency Plan
Aerodynamics With Paper Airplanes
Lego Engineering & Racers
Indoor Team Building
STEAM Machine
Solar Amusement Park
Ice Cream Matters
Mini Greenhouse, Seed Bursts & Food Web

- Will be used in the event that rain, snow, or other weather conditions prohibit the use of our outdoor facilities
- Equine Science or Seed Burst can be substituted for ONE contingency module

Alternate Activities for Additional Cost

High Ropes Course $25-45 depending on elements chosen
Challenge yourself and the people in your group by climbing our 50 foot rock climbing wall, and cheer on your peers as they face our 25 foot Leap of Faith where you are challenged to scale a telephone pole and take a 'leap of faith' from the top. If time permits, help your peers build and scale the tallest milk crate tower in our Crate Stacking exercise. Facilitated by our American Rescue & Safety certified staff.

Kayaking $10
Take advantage of our beautiful 2 acre pond, where you can view the various fish that call Chauncey home. If you're lucky, you may even see our bullfrogs and ducks! Supervised by our certified lifeguards.

Labyrinth $7
A more contemplative, guided, activity where the history of the use of labyrinths is explored through the many cultures that use labyrinths and their purpose for each of those cultures. This activity can be tailored to your specific needs or goals.

Swimming Pool $10
Available April - September. Our pool offers a nice way to cool off after a hot day and have some fun splashing around. Deepest area is 5 feet. Supervised by our certified lifeguards.

Zip Line $35
Climb all the way to the top of our 50 foot rock wall, and zip off the other side rather than be repelled down. Facilitated by our American Rescue & Safety certified staff.

Module Descriptions

Aerodynamics With Paper Airplanes
This lesson introduces students to the art of designing an airplane (aerodynamics) through paper airplane constructions. The goal is that students will learn important aircraft design considerations and how engineers must iterate their designs to achieve success. Students first follow several basic paper airplane models, after which they will then design their own paper airplane. They will also learn how engineers make models to test ideas and designs.

Amazing Race
The groups will be given clues which they have to figure out how to get to their check point somewhere within the camp. Once at the checkpoint, the team must successfully complete a challenge. The team must go back to home base to get another clue. At the designated stop time, the team with the most completed clues is deemed the winner!

STEM Archery
In this module, taught by certified NASP® instructors, students will learn the fundamentals of beginning archery with an emphasis on safety and self-discipline for proper technique. This introduction to the sport of Archery will not only allow students the opportunity to learn an Olympic sport, but to also learn the science behind it. We will integrate STEM by teaching students how and why the design of the bow and arrow work for precision through design and physics concepts.

Ecology Hike

Students participate in a nature walk; using their senses to make observations of the organisms that survive in the forest ecosystem and how their structures and behaviors increase the chances for survival.

Equine Science 1 & 2
In this discussion lead and hands-on module, students will learn about the history and evolution of horses and their habitat, explore their unique physical and biological attributes, as well as the evolution of the relationship between horses and people. Equine Science 2 delves deeper into the mechanics of horse movement, basic veterinary care and cost of maintaining a horse.

Ice Cream Matters
In this lesson, the students will change matter from liquid to solid by changing the temperature. They will discover that energy causes the matter to change. They will also practice following directions and measuring with accuracy.

Indoor Team Building
This succession of games and challenges are given to student teams for them to strategize and complete. The key is communication! We will work on all the necessary skills to be an effective team. The students are also given a few rules but then are left to figure out the rest to encourage out of the box and critical thinking skills. These are fun and challenging games with the end result of discovering skills that they will need and use the rest of their lives.

LEGO® Engineering & Racers
First, it is a contest to come up with your own design to be

the fastest Lego car in the class. Then a twist and turn takes the students on a re-modification route as their guidelines change. They have to continue to be the fastest LEGO car with some serious design challenges. Fun and creative competition and team work to focus on ingenuity and design.

Low Ropes Course
Students will be taken on a journey of personal perils and group challenges through the course. All of the activities require no harnessing as they are no more than 3 feet off the ground. The goal of the course is to develop team building and leadership skills that will be useful throughout their lives.

Mini Greenhouse, Seed Bursts & Food Web
Students will get hands-on experience in learning about the soil and water qualities that allow for plant growth. In this module, they will discover how a greenhouse manages to meet all of the requirements for plant growth, build their own soil ball containing various seeds that they can take home to plant and watch their creations come to life, and end with a discussion about how the environment and all of the plants and animals within play into the food web.

Solar Amusement Park
Students are introduced to the world of creative engineering product design. In this activity, teams work through the steps of the engineering design process by completing an actual design challenge presented in six steps. As members of an engineering design team, students choose a theme park ride that they want to build that is run ONLY by a solar panel and simple motor.

STEAM Machine
Students will learn and put into practice engineering design concepts to create a *Rube Goldberg* machine using 3 chain reaction steps to pop a balloon. The students will work in small

groups and have to incorporate teamwork to be successful. In the end, we learn that failures are a chance to learn and improve your design. We will also learn about the importance of a machine having a good design for consistent performance.

Pond Ecology *(for grades 9-12)*
Students become stream ecologists in this module and learn about the many attributes that play into the working ecosystem of a stream. We will take measurements as teams in the Tonto Creek and from a spring fed stream on camp. Students will compare and contrast the information they learned about each section of water.