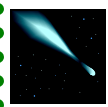


4-H'er Activity Corner - Exploring Space Science

A falling star is a meteor. Meteors are streaks of light in the sky. The light is caused by a small speck of dust burning when it enters the Earth's atmosphere. The dust comes from comets. These pieces of comet dust are called meteoroids. Most meteoroids are smaller than a grain of sand. The flash of light is called a meteor. Meteors usually last just a second or two. Sometimes, there are meteor showers. In a meteor shower, lots of shooting stars seem to fall from one area of the sky. These meteor showers happen when the Earth travels through a stream of dust following a comet. Some people get comets and meteors mixed up. A comet is very different from a meteor. A comet is larger and travels slowly across the sky. It takes many days for a comet to leave our sky. A comet looks like a bright ball with a long shiny tail. A comet is a ball of frozen gas, dust, and water.



Do you know your comets from your meteors?




Directions: The following words and phrases describe comets, meteors, or meteoroids. Write the correct word beside each phrase.

- 1.) shooting stars _____
- 2.) made of dust and ice _____
- 3.) has a tail _____
- 4.) speedy streak of light _____
- 5.) smaller than a grain of sand _____
- 6.) falling stars _____
- 7.) lasts a second or two _____
- 8.) travels slowly across the night sky _____
- 9.) may come in showers or storms _____
- 10.) remains in the sky for many days _____

Adapted from: *Space Science Adventure is Waiting*. Nasa. Visit www.nasa.gov for more answers and additional information!

Virginia Cooperative Extension James City County Office

FOR MORE 4-H INFORMATION
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To submit pictures or information about your 4-H club or projects, email Jeremy Johnson, Associate Extension Agent, 4-H Youth Development at jejohns1@vt.edu.

4-H Motto:

"To Make the Best Better."

4-H Philosophy:

"Learn By Doing"

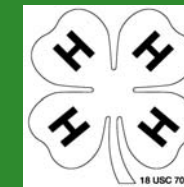
4-H is a community of young people across America who are learning leadership, citizenship, and life skills.

4-H Pledge:

"I pledge my head to clearer thinking,
I pledge my heart to greater loyalty,
I pledge my hands to larger service,
I pledge my health to better living,
for my club, my community, my
country, and my world."

If you are a person with a disability and desire any assistive devices, services or other accommodations to participate in this activity, please contact Jeremy Johnson, James City County at (757) 564-2170/TDD*) during business hours of 8 a.m. and 5 p.m. to discuss accommodations 5 days prior to the event. *TDD number is (800) 828-1120.

CLOVER PATCH



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EXTENSION
JAMES CITY COUNTY
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4-H CALENDAR

JANUARY 25-27
NATURAL
RESOURCE
WEEKEND

FEBRUARY 1-3
TEEN WEEKEND
HOSTED BY
STATE CABINET

FEBRUARY 7
4-H DAY AT THE
STATE CAPITAL

FEBRUARY 23
B & B HORSE
JUDGING CLINIC

**FEB 29 -
MARCH 2**
NATIONAL YOUTH
HORSE LEADERS
SYMPOSIUM

MARCH 3-8
VIRGINIA 4-H BB
GUN/AIR RIFLE/
AIR PISTOL
CHAMPIONSHIP

MARCH 15-16
WINTER CLOVER-
BUD (AGES 5-8)

MARCH 27-31
NATIONAL
CAMPING
INSTITUTE

Virginia 4-H State Congress Recap

This year's 4-H State Congress was held from June 18-21. Eleven 4-Hers from James City County attended this premier event. While there, 4-Hers had opportunities to participate in competitions, explore Virginia Tech, attend interactive, hands-on workshops in leadership, environmental education training, CPR-Professional Rescuer, shooting education, and Money Camp. In addition to fun and learning, 4-Hers participated in two community service projects offered at Congress. For one project youth created Happy Hats: fun, colorful, festive hats for children who are sick in the hospital. For the second project students made blankets for the homeless.



Above: 2007 4-H Congress Participants pictured outside Burruss Hall on the campus of Virginia Tech. Top Row - Wayne Freeman, Warren Speth, Schuyler TenBroeck, Lewis Flanary, Jeremy Johnson, and Marta Zoellner. Bottom Row - Tristan Roehrbein, Zach TenBroeck, Meagan Smith, Caroline Ward, Danielle Driscoll, and Anneliese Orlino.

Peer Mediation: Creating Youth Peace Makers



Above: October 2007 Peer Mediation Graduates at Jamestown 4-H Educational Center.

147 youth participated in peer mediation training in 2007. 39 teens attended an overnight Peer Mediation Training in February and another 27 attended in November at Jamestown 4-H Center. 40 elementary school students participated in six hour training in April and another 41 participated in November. Youth increased their knowledge in helping others identify feelings and needs during a conflict and felt more prepared to help others in a conflict after the training.



Left: Teens use active listening and paraphrasing to help peers solve conflict.



Above: February 2007 Peer Mediation Graduates at Jamestown 4-H Educational Center.

2007 State 4-H Horse Show Results

4-H Member	Horse Name	Class Name	Place
Julianne Biernacki	Harvest Moon	Large Hunter Pleasure Pony, Sr. Rider (14-15)	6
		Hunter Equit., Large Pony, Sr. Rider (14-15)	7
Virginia Boyko Carly Faber	Moonlight Bay Blue Moon Sky	Small Hunter Pleasure Horse, Sr. Rider (16-19)	7
		Large Hunter Pleasure Pony, Jr. Rider (9-12)	1
Kelsey Gulden	Smallwood Splash	Hunter Equitation, Flat, Large Pony, Jr. Rider (9-12)	1
		Hunt Seat Equitation Pony, Classic	9
		Small/Medium Hunter Pony U/S, Jr. & Sr. Rider	4
		Med & Small Hunt Pony, Jr. & Sr. Course A	2
		Hunt Seat Equitation Pony, Classic	3
Grace Harding	Star Struck	Med & Small Hunt Pony, Jr. & Sr. Course B	2
		Equit. O/V Med, Small, Jr. Rider (9-12)	1
		Jr. Hunter Showmanship (13)	4
		Large Hunter Pony Under Saddle, Junior	2
		Large Hunter Pony, Junior (2'6") Course B	1
Caitlin Holliday	Valentino	Hunter Equit., Flat, Large Pony, Jr. Rider (13)	1
		Hunt Seat Equitation Pony, Classic	2
		Intermed. Hunter Horse O/F (2'6"), Sr. Course B	9
		Hunter Equit., Flat, Large Horse, Sr. Rider (14-16)	7
		Reg. Hunter Horse O/F (3;0") Jr. & Sr. Course A	2
Rachel Jones	Full Moon Bay	Reg. Hunter Horse O/F (3;0") Jr. & Sr. Course B	2
		Regular Hunter Horse, Under Saddle, Jr. & Sr.	5
		Equitation O/F (3'), Horse, Senior Rider (16-19)	3
		Hunter Pleasure Horse Classic	2
		Small Hunter Pleasure Horse, Senior (14-15)	2
Alexandra Paszkiewicz	Over the Moon	Small Hunter Pleasure Horse, Sr. Rider (14-15)	1
		Hunt Seat Equitation Horse Classic	2
		Hunter Equit., Flat, Small Horse, Sr. Rider (14-15)	1
		Equitation O/F (2'6") Large Pony, Jr. Rider (13)	1
		Large Hunter Pony, Junior (2'6") Course B	3
Colleen Poertner	Domino	Large Hunter Pony Under Saddle, Junior	9
		Large Hunter Pony, Junior (2'6") Course A	10
		Med & Small Hunt Pony, Jr. & Sr. Course B	7
		Equit. O/F (2'0") Med, (2'0") Small, Jr. Rider (9-12)	10
		Large Hunter Pony, Junior (2'6") Course B	9
Hannah Schwarz	My Little Pony	Equitation O/F (2'6") Large Pony, Jr. Rider (9-12)	4
		Large Hunter Pony, Junior (2'6") Course A	1
		Large Hunter Pony, O/F (2'6") Senior Course A	1
		Large Hunter Pony, Senior (2'6") Course B	8
		Equitation O/F (2'6") Large Pony, Senior (14-15)	2
Lucy Smith	Social Butterfly	Large Hunter Pony Under Saddle, Senior	2
Hannah Woodroffe	Devil in Disguise		



Left: Cedar Valley 4-H Members Shine at the 2007 State 4-H State Horse Show: photo shows from left to right – Catherine Tacosa, Grace Harding, Cordy Branscome, Hannah Woodroffe, Julie Biernacki, Rachel Jones, Kelsey Gulden, Carly Faber, Ginny Boyko, Jessie Suttle, and Andie Paszkiewicz.

INFORMATION CORNER

4-H 2007 Summer Day Camps Review

Leadership Camp—What a success ! 6 teen 4-Hers participated and all 6 felt better prepared to serve in a leadership role after three days of leadership activities. They got a chance to practice those skills by presenting a program proposal they created to a panel of professionals.



Above: As a true teamwork experience, teens work together to prepare a graduation lunch.



Above: Teens use cooperation, communication, and teamwork to develop leadership skills.



Lego Robotics Camp
This three day camp in July had 17 participants.

Participants gained a working knowledge of robot parts and how to program robots. Working with robots sure does make science, technology, engineering, and mathematics fun!

Junior Space Explorers—19 4-Hers took advantage of the opportunity to learn about flying, kites, hot air balloons, rockets, and space exploration at this five-day camp. They constructed model rockets and solar ovens, visited the Virginia Air and Space Museum in addition to many other hands-on activities.



Above: Hamed Barbarji prepares to launch his model rocket.



Left: Ready for lift off at the Virginia Air and Space Museum!



Right: Cooking healthy snacks in a home-made solar oven.



Above: LEGO robotics campers test their computer programming skills on the Nano Technology Lego Robotics competition mat.

Natural Wonders: ABC Discovery —13 Cloverbuds participants learned about natural resources, the environment, plants, soils, foods, nutrition, and health through interactive games, arts, and

Right: Cloverbuds become budding scientists by collecting a soil sample to examine its parts.



Far Right: Cloverbuds create a healthy bird's nest snack from cereal, coconut, and yogurt.



Above: Cloverbud campers explore plants and insects in the Water Wise Garden with Master Gardeners.