Deadline: Friday, March 9th

Checks Payable to: Ness Co. 4-H Council

ENCLOSE:

☐ Registration form
☐ Payment
☐ Kansas 4H Participation Form

Name: _____

Address: _____

_____

Phone: _____

email: _____

❏ Youth   Age: _____
❏ Adult   ___ Parent ___ Leader
❏ T-shirt Size ____ Youth ____ Adult
   Sm ____ Med ____ Large ___ XL
   Other _____

Session 1: 10:00am - noon (pick one)
___ Rocket Building/Finishing Techniques
___ WeDo Robotics

Session 2: 12:45pm - 1:45pm (pick one)
___ Engineering 101
___ NXT-EV3 What's it all A"BOT"
___ Drone Discovery
___ Scratch Programming

Session 3: 2:00pm - 3:00pm (pick one)
___ Engineering 101
___ NXT-EV3 What's it all A"BOT"
___ Drone Discovery
___ Scratch Programming

Sponsored by:

Walnut Creek District 4H
503 S. Pens City, KS 67560
785-798-3921
rdeines@ksu.edu

Ellis County 4H
601 Main, Suite A
Hays, KS 67601
785-628-9430
sschlich@ksu.edu

Thanks To:
Dane G. Hansen Foundation,
Financial Support

NW 4-H Space Tech Day

Saturday, March 24, 2018
9:30am to 3;30pm
Ness City High School
200 N 5th Street
Ness City, KS

K·STATE Research and Extension | 4-H GROWS HERE

Who: Youth, Parents and 4-H Project leaders that want to learn more about the 4-H Space Tech project.

What: Hands-on learning experiences with Rocketry, Robotics, Unmanned Aerial Systems (Drones, UAS), Engineering and Scratch Programming

When: Saturday, March 24, 2018 Registration and get acquainted will start at 9:30am First Session will start at 10:00am We will wrap up the day by 3:30pm

Where: Ness City High School, 200 N 5th Street, Ness City, KS

Cost: Registration cost is $20.00 per participant which includes snack, lunch, t-shirt, handouts and one choice of curriculum.
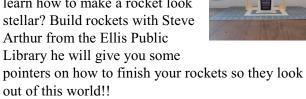
Lunch/Snack: Lunch will be provided for paid registrants, and $5.00 for additional family members. Please note on Registration.

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Mail to: Walnut Creek Extension District 503 S. Penn, Ness City, Kansas 67560

Each participant will receive a t-shirt the day of event, and one project book or leaders guide delivered after the event.

Rocket Building/ Finishing Techniques --Would you like to learn how to make a rocket look stellar? Build rockets with Steve Arthur from the Ellis Public Library he will give you some pointers on how to finish your rockets so they look out of this world!!
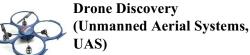
WeDo Robotics --Build and program simple robots during this Lego robotics workshop. This class is geared for the beginner robotics participant. We'll work in teams to build and program basic Lego WeDo bots. This class is taught by Susan Schlichting, Cottonwood District Extension Agent, 4-H Youth Development; Gracie Jessup, Phillips Co. 4-H'er and Ellis Co. 4-H teens. Min. 5 Max. 10.

Engineering 101– Try your hand at some fun Space Tinker Crates, creating Planetariums, Paper Rockets, Air Cannons and Catapults. Knowing the basics of engineering helps to build skills later through your space tech program. Taught by Robyn Deines Walnut Creek District 4H Agent and WCD Teens. Max 12

NXT – EV3 – What's it all A"Bot"? – Lego Mindstorms are a fun way to learn about engineering design and programming. During this session you will learn more about the different platforms (NXT & EV3) and the different ways to program them using laptops, iPads, and directly on the robot's brain. See how the sensors work to help the robots solve challenges. This class is taught by Gracie Jessup, Phillips Co. 4-H'er; Susan Schlichting, Cottonwood District Extension Agent, 4-H Youth Development and Ellis Co. 4-H teens. Min. 5 Max. 10

Drone Discovery (Unmanned Aerial Systems, UAS)
Drones are revolutionizing the way we work and play, whether you are a filmmaker looking for the perfect aerial shot, a rescue worker mapping damage from natural disaster or a farmer determining how to increase crop yield. Come join us as we explore drones. Tyler Rider WCD 4H Volunteer and Brett Ellis Co Teen

Scratch Programming – learn the visual programming language and online community targeted for youth. You will learn to the basics to create games and animations. First time Scratch class. Taught by Heather, Traci and Preston Ross, Walnut Creek District Volunteers.

Hands-on Activities
Take time to explore the array of quick and simple Space Tech hands-on activities. These activities are fun to learn about and also fun to share at day camps, After School programs and 4-H club meetings.

Please invite your friends! Participants may be 4-H members, non-4-H Members, Scouts or home school youth. Spread the word and help us to fill the classes.