



NEW MEXICO

REGIONAL SUPPLEMENTARY MANUAL

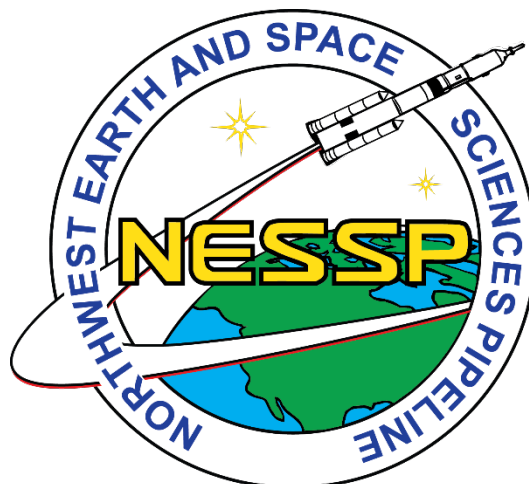
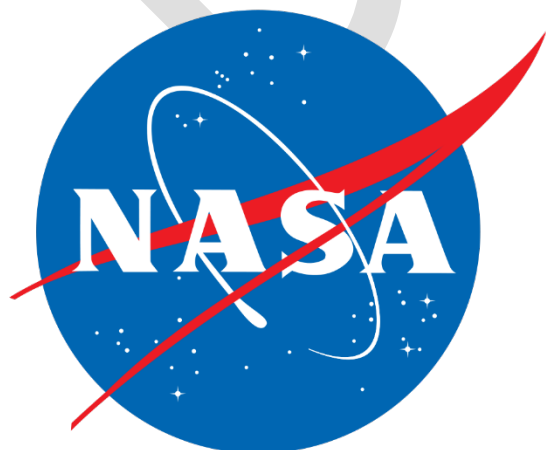
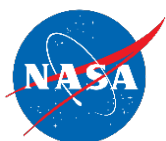


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1 INTRODUCTION

1.1 About Northwest Earth and Space Sciences Pipeline

Northwest Earth and Space Sciences Pipeline (NESSP) is funded through the [NASA Science Mission Directorate](#) and housed with [Washington NASA Space Grant Consortium](#) at the [University of Washington](#).

Our goals are to strengthen the science, technology, engineering, and math (STEM) education region-wide and infuse a strong, standards-based mathematics component into NASA educational materials for middle and high school levels. We also serve as a bridge into other NASA experiences for teachers and students.

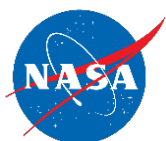
NESSP provides immersive STEM opportunities for middle and high school students using NASA science and supporting Next Generation Science Standards. NESSP seeks to increase pathways for students towards careers in STEM, particularly in underserved communities.

The Apollo 50th Next Giant Leap Student Challenge leverages NESSP expertise to engage students in technologies relevant for today's society. The challenge also gives students the opportunity to sense the spirit of achievement and exploration exemplified by all those that contributed to the successful landing of the Apollo 11 spacecraft on the moon 50 years ago.

Visit our website: <http://nwessp.org/>

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1.2 Important Dates & Deadlines

JANUARY, 2019	Official announcement of Apollo 50 th Next Giant Leap Student Challenge
FEBRUARY 1, 2019	ANGLeS Kickoff Event, Registration opens, Manual released
FEBRUARY 28, 2019	Regional Supplementary Manual released.
MARCH 30, 2019	Local Organization Registration closes
MARCH 30-JUNE 24	Local Organization Challenges and Team Selection
JUNE 1, 2019	Mission Patch due
JUNE 8, 2019	Mission Patch winners announced
JUNE 20, 2019	One Month to Landing Social media post due
JUNE 24, 2019	Organizations nominate one team to for a Regional Challenge Hub Event
JULY 1, 2019	Regional Hub Challenge Event invitations issued
JULY 8, 2019	Teams confirm Regional Hub Challenge Event attendance and submit travel support requests
JULY 16-20, 2019	Apollo 11 50 th anniversary week, Regional Challenge Events
AUGUST 7-9, 2019	Winners showcase and tour at Johnson Space Center, Houston, Texas



2 REGIONAL EVENT INFORMATION

2.1 Professional Development

Professional development is scheduled in Las Cruces, New Mexico and Albuquerque, New Mexico on the dates listed below. All workshops are in the evening from 5:00pm-8:00pm. If you are unable to make both days of the workshop, please register for the date that will be the most beneficial for you. All workshops will be

Las Cruces @ New Mexico State University

February 19, 5:00 – 8:00pm – Challenge Overview and Drones

February 20, 5:00 – 8:00pm – Lego Mindstorms

Register: <https://goo.gl/forms/xCRL45q0YXPg9cU93>

Albuquerque @ Aquila

February 21, 5:00 – 8:00pm – Challenge Overview and Drones

February 22, 5:00 – 8:00pm – Lego Mindstorms

Register: <https://goo.gl/forms/nHBgiqAMAIMQwUm42>

2.2 Support

2.2.1 Funding

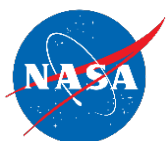
NM Space Grant and the College of Engineering will assist registered teams to participate in crowd sourced sponsorships.

2.2.2 Supply Lending

We have a limited number of free supply kits for New Mexico programs and teams that can demonstrate need and strong student participation, particularly in underserved communities, and organizations with greater than 50% free and reduced lunch. If approved, supplies provided at no cost will include one Force1 U49W Blue Heron WIFI FPV Drone and one LEGO Mindstorms EV3 Education Edition kit.

2.2.3 Travel Support

We have a limited number of travel allowances for New Mexico programs and teams that can demonstrate need and strong student participation, particularly in underserved communities, and organizations and teams that are located 2+ driving hours away from New Mexico State University, the location of the New Mexico hub. Teams are encouraged to register even if they are unsure about whether they can participate because of material or travel needs, because we won't be aware about team needs until they register and indicate them.



2.3 Regional Hub Challenge

2.3.1 Date and Location

The Regional Challenge Event will be held on July 19 and 20, 2019, at New Mexico State University in Las Cruces, NM.

2.3.2 Modifications to Challenge Rules

Visit <https://engrstem.nmsu.edu/angles-challenge> for any modifications to challenge rules.

2.3.3 Challenge Field

Visit <https://engrstem.nmsu.edu/angles-challenge> for any changes to challenge field.

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GLOSSARY

Above Ground Level (AGL)

Apollo 50th Next Giant Leap Student Challenge (ANGLeS)

Drone

Flight Crew

Autonomous

Flight Director

Guidance Officer

Lunar Module

Lunar Rover

Moon

Small Unmanned Aircraft System

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