Schedule — Date (2019)

Registration Opens*&
Challenge Manual Released ..... FEBRUARY 1

Registration Closes** ..... MARCH 31

Mission Patch Social
Media Post due ..... APRIL 19

Practice Video Social
Media Post due ..... MAY 3

Nominations for Hub Challenge
submitted by Registered
Organizations ..... MAY 31

Hub Challenge invitations sent ..... JUNE 17

Regional Hub Challenges*** ..... JULY 15-20

Grand prize winners for
each Hub visit Johnson
Space Center in Houston, TX ..... AUGUST 7-9

* Teams may sign up through Registered Organizations. Qualifying events at Registered Organizations may occur any time before the Nomination deadline.

** Contact your Regional Hub for an exception.

*** Hub Challenge dates vary. See your nearest Hub's page at nwessp.org/apollo50 for exact Hub Challenge dates.

detailed information at nwessp.org/apollo50

Fifty years ago, NASA took one giant leap for mankind. The Apollo Program was the culmination of President John F. Kennedy's goal of "putting a man on the moon and returning him safely to the earth."

July 20, 2019 will mark the 50th Anniversary of the landing of Neil Armstrong and Buzz Aldrin on the Moon in Apollo 11. NASA's **Northwest Earth and Space Sciences Pipeline (NESSP)**, also the Washington State Hub, will hold a celebration entailing a student drone and robotic challenge, called the Apollo Next Giant Leap Student Challenge (ANGLeS Challenge).

Teams that win Regional Hub Challenges will earn a Grand Prize of a trip to Johnson Space Center in Houston, Texas!

Apollo Next Giant Leap Student Challenge

An immersive opportunity for students to use the latest technologies to **explore, inspire, create, and achieve.**

#Apollo50 #ApolloNextGiantLeap

SUPPORT

The ANGLeS Challenge aims to increase student interest in STEM pathways and careers, particularly in underserved communities. To support those students:

- No experience is necessary to participate.
- There is no cost to enter.
- Professional development will be available to Flight Directors in select cities across the United States.
- Free or discounted drones and robots may be provided upon request.
- Travel assistance may be provided to teams from select Hub states; See the ANGLeS Challenge website for full details.
- All teams will receive a NASA certificate of participation.

Learn and apply programming, aerodynamics, geology, visual and engineering design, and social media to evoke the audacity and ingenuity of the Apollo Era!

TEAM STRUCTURE

Flight Director

An adult team lead who acts as the coach and primary point of contact.

Student Members

The team is not limited by size. Each member will work together to prepare for all aspects of the challenge.

Flight Crew

5 team members will represent their team at the Challenge Events. These 5 roles are Commander, Lunar Module Pilot, EVA Officer, Science Officer, and CAPCOM.

REGIONAL HUB STATES

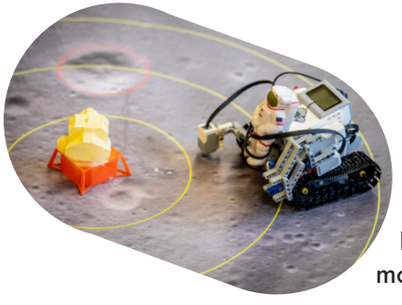
AZ	MN	NM	OH/MI	OR	TX	WA
ID	MT	NY	OK	SC	SD/ND	

If you do not see your state listed, select the Hub nearest to you! Teams are encouraged to participate at Registered Local Organization qualifying Challenges, even if they do not plan to participate at a Hub Challenge for a Grand Prize.

CHALLENGE

LANDING

Design a Lunar Module that you'll use to recreate the Apollo 11 moon landing. Fly a drone carrying your Lunar Module and land it on a designated landing zone on the lunar surface.



FIRST STEPS

Once your drone drops off your Lunar Module, place your Lunar Rover on the moon.

OBJECTIVES

Program your Lunar Rover to traverse the lunar surface and complete a series of objectives.