

**QUEST INSTITUTE**  
for QUALITY EDUCATION



# QUEST FOR SPACE

International Space Station  
Experiment Platform


# WHY SPACEFLIGHT?

This is an exciting project-based learning environment for elementary, junior high, and high school students to engage in science and engineering through the development of an experiment on the International Space Station (ISS) using LEGO Mindstorms®.

*“In the areas of Arts and Athletics, there are natural-built paths for young children to develop. When it comes to science, technology, and engineering, the frontier of space exploration can be the way in.”*

Danny Kim, Director of Innovation  
The Quest Institute for Quality Education


**RESOURCES  
AND  
SUPPORT**



**CURRICULUM**  
*Over 30 hours  
of Lesson  
Plans*



**ENGINEERING**  
*Step-by-Step  
Experiment  
Manual*



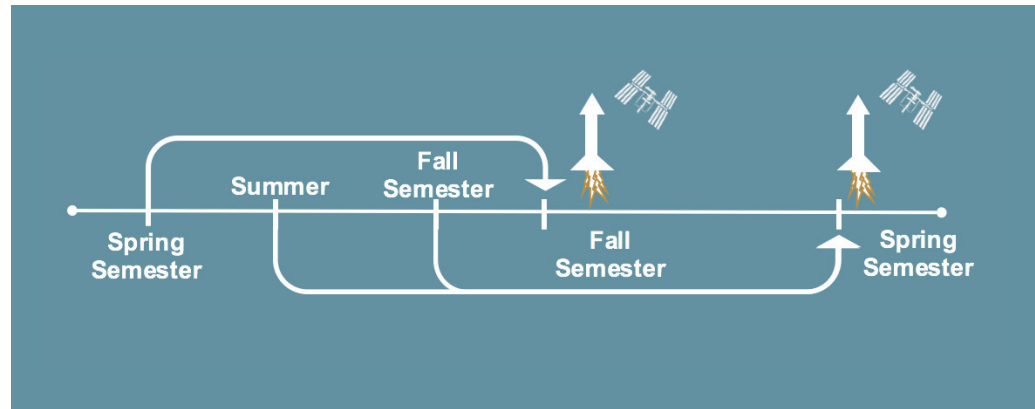
**HELP**  
*24/7  
Support*



**COMMUNITY**  
*Online  
Community  
Portal*



**TRAINING**  
*Mentor  
Webinars*



	ISS GROUND UNIT	ISS FLIGHT PROGRAM	ISS CUSTOM FLIGHT PROGRAM
HANDS-ON STEM EDUCATION	✓	✓	✓
ELEMENTARY	✓	✓	N/A
JUNIOR HIGH	✓	✓	N/A
HIGH SCHOOL	✓	✓	✓
OPERATES IN SPACE	N/A	Your custom S/W	Custom H/W & S/W platform that you develop
TRAINING AND SUPPORT	Experiment Manual	Experiment Manual Curriculum Partner Portal Access 24/7 Support	Mentor Workshop Checkpoint Meetings 24/7 Support
ACCESS TO FLIGHT DATA	Historical	Real-time	Real-time
COMMITMENT RECOMMENDATIONS	2+Hours/Week	3+Hours/Week	5+Hours/Week
GROUP SIZE	5-7 Recommended/ Ground Unit	5-7 Recommended/ Ground Unit	12 Maximum
PLATFORM	LEGO Mindstorms®	LEGO Mindstorms®	Proprietary Mix
PROGRAMMING	Introductory	Introductory	Advanced
MENTOR EXPERIENCE RECOMMENDATIONS	Science or Math Teacher	Science, Math, or Robotics Teacher	Tech and Engineering Mentor Required
FACILITY REQUIREMENTS	Flat Tables	Flat Tables	Flat Tables and Lab Space for Bench Tools

## *STEM Education Through Space Exploration*



## QUEST FOR SPACE

The International Space Station Experiment Platform enables students to create science experiments that run on the International Space Station.

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