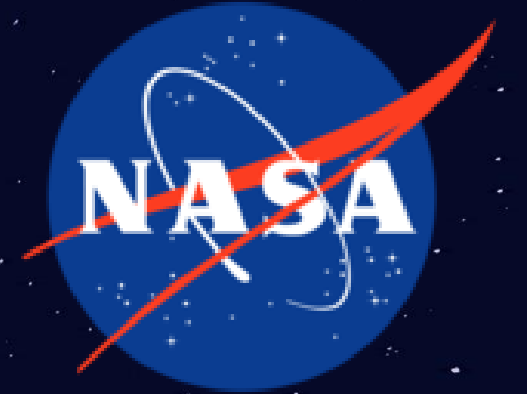


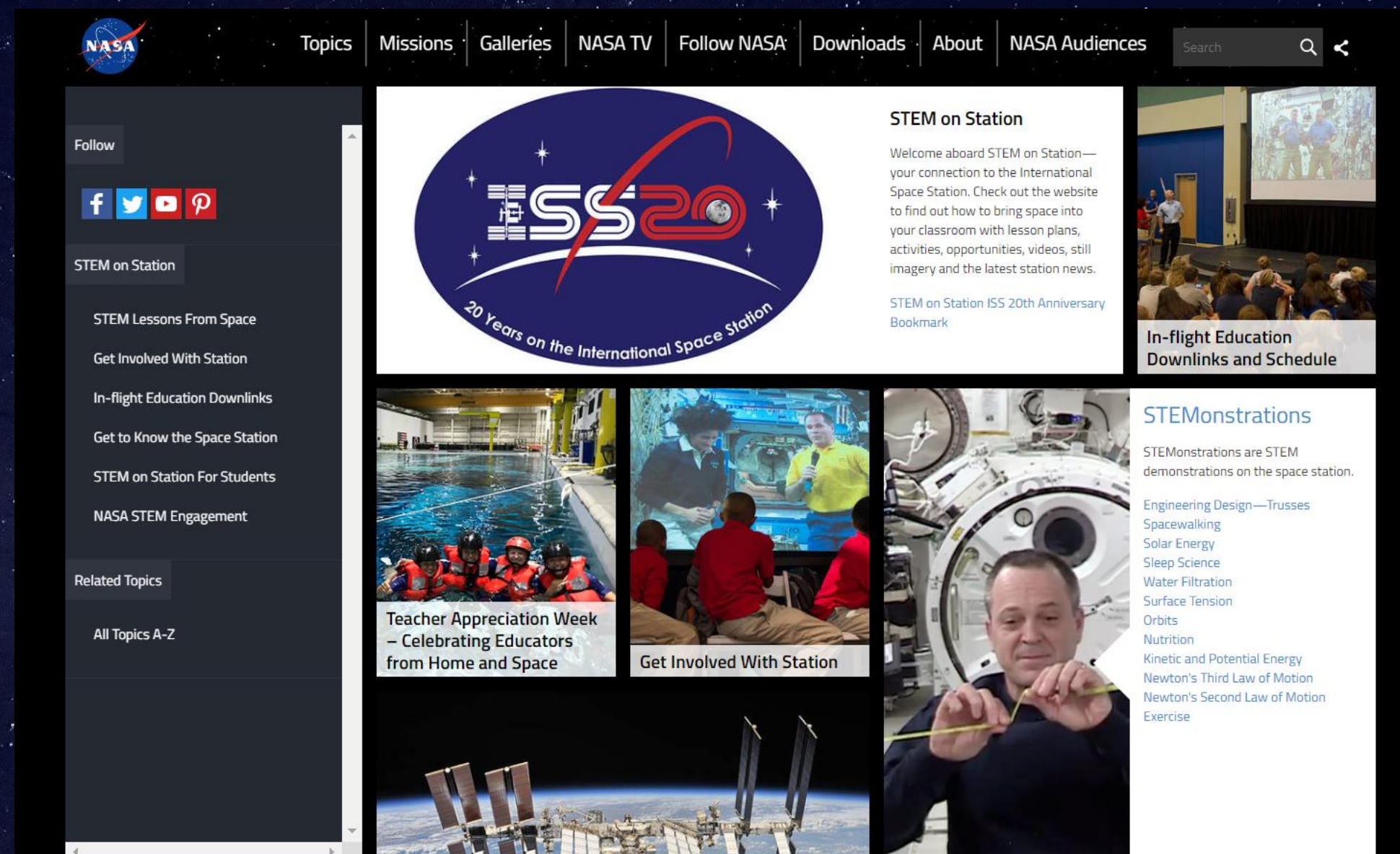
EXPLORE HUMANS *in* SPACE



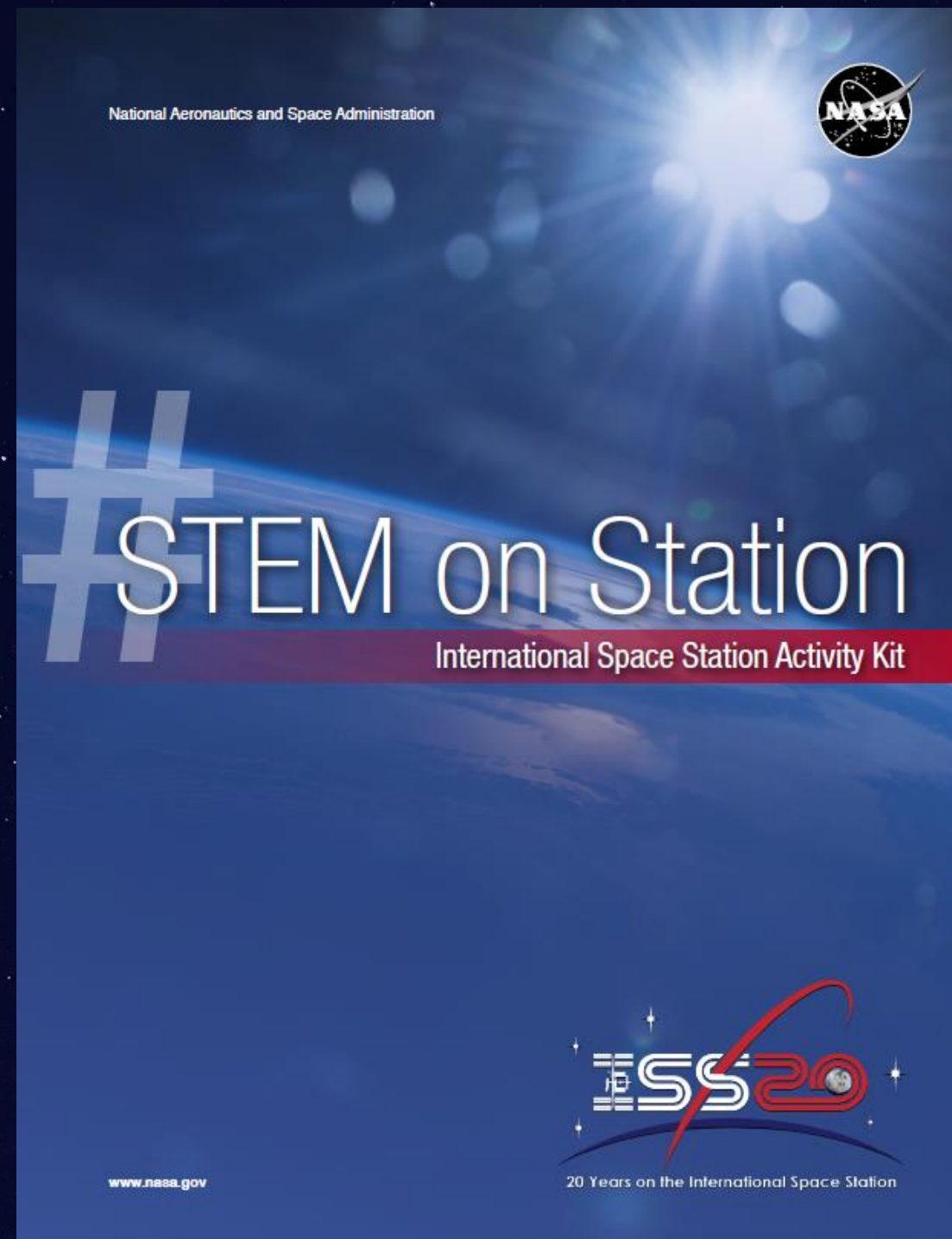
International Space Station
Activity Kit Guide

Welcome to the Activity Kit

NASA's STEM on Station is your connection to the International Space Station! This activity kit is designed to engage students and educators in NASA's missions and resources.



How to Use the Activity Kit



The Activity Kit includes both talking points and interactive activities:

Demonstration Items (pages 5-13)

Use the talking points on these pages in a conference setting, where you will interact with lots of people for a short period of time.

Activities (pages 16-25)

These are designed for a classroom setting where you have more time with a smaller group.

ISS20th Anniversary

On November 2, 2020, NASA and its international partners will recognize 20 continuous years of human presence on the International Space Station.

This Activity Kit includes updates and talking points about the achievements of the space station on **page 4**.



Tips and Tricks

You can build a kit for all of the activities using the “Items Needed” boxes, or just gather the items you need for the activities you will be doing.

All the items can be **easily obtained or improvised.**

ITEMS NEEDED

1. UV detecting beads
2. Fishing line
3. Scissors



ITEMS NEEDED

1. Plush Earth model with Velcro enclosed Moon
2. Plush Mars model
3. Rope
4. International Space Station Image



ITEMS NEEDED

1. Variety of space food samples



ITEMS NEEDED

1. Vacuum chamber
2. Vacuum pump
3. Balloons
4. Thermometer



ITEMS NEEDED

1. Sleep restraint (You can easily create a sleep restraint using a sleeping bag!)



ITEMS NEEDED

1. Solar Science Kit
2. Colored plastic sheets



Quick Start Guide

Use this index to find topics and activities:

Earth, Moon, Mars and the International Space Station – p.6-7, 17

Radiation – p.8, 18-19

Sleep Restraint – p.9, 20-21

Solar Energy – p.10, 22

Space Food – p.11-12, 23-24

Vacuum Chamber – p.13, 25



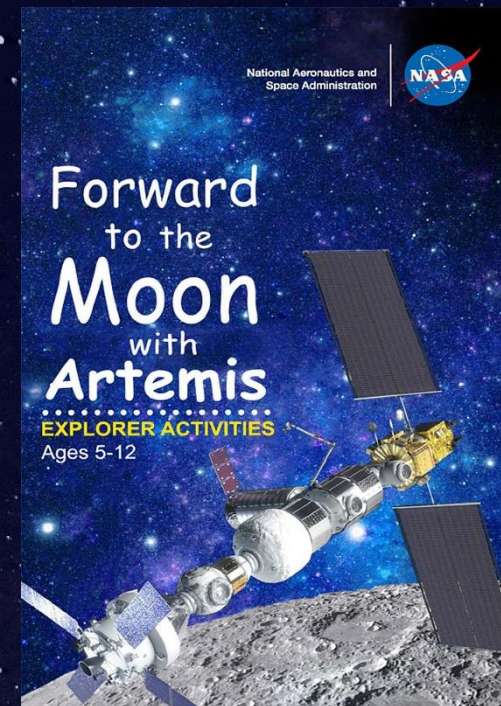
Additional Educational Resources



INSPIRE - ENGAGE - EDUCATE - EMPLOY
The Next Generation of Explorers



Story Time from Space



Artemis Activity Book



Spot the Station



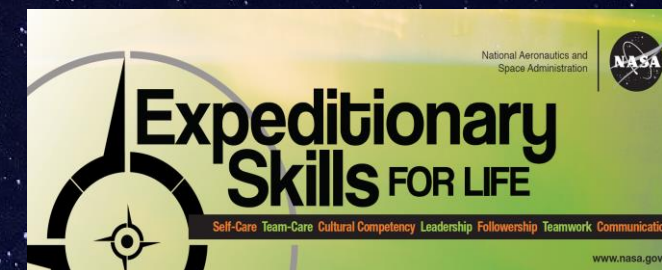
Sally Ride EarthKAM



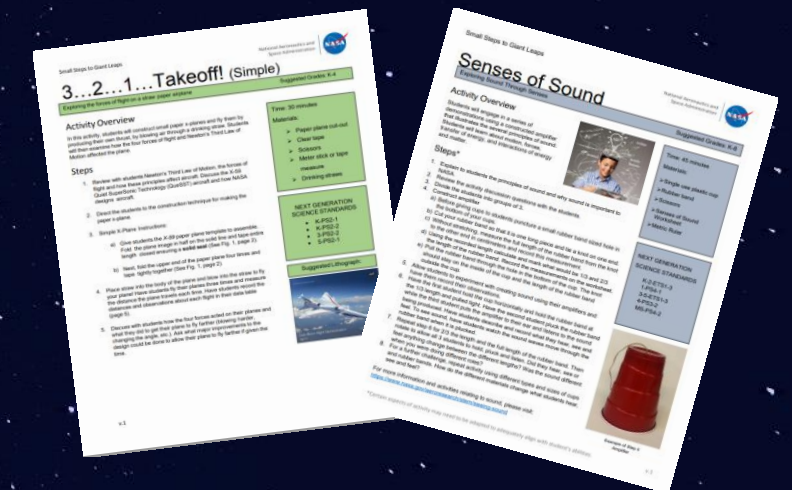
A-Z Activity Book



Student & Educator Badging



Expeditionary Skills



Small Steps to Giant Leaps Activities

Connect



STEM on Station

Connect your students
to the International
Space Station with
resources at

nasa.gov/stemonstation



CCP NEXT GENERATION STEM

Check out activities
developed for the
Commercial Crew
Program at

nasa.gov/stem/ccp



NASA STEM ENGAGEMENT

Explore all of the
opportunities and
resources available
through NASA's Office
of STEM Engagement at

nasa.gov/stem