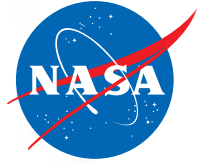


COMMERCIAL CREW PROGRAM

# 2020 CALENDAR

## CHILDREN'S ARTWORK



N

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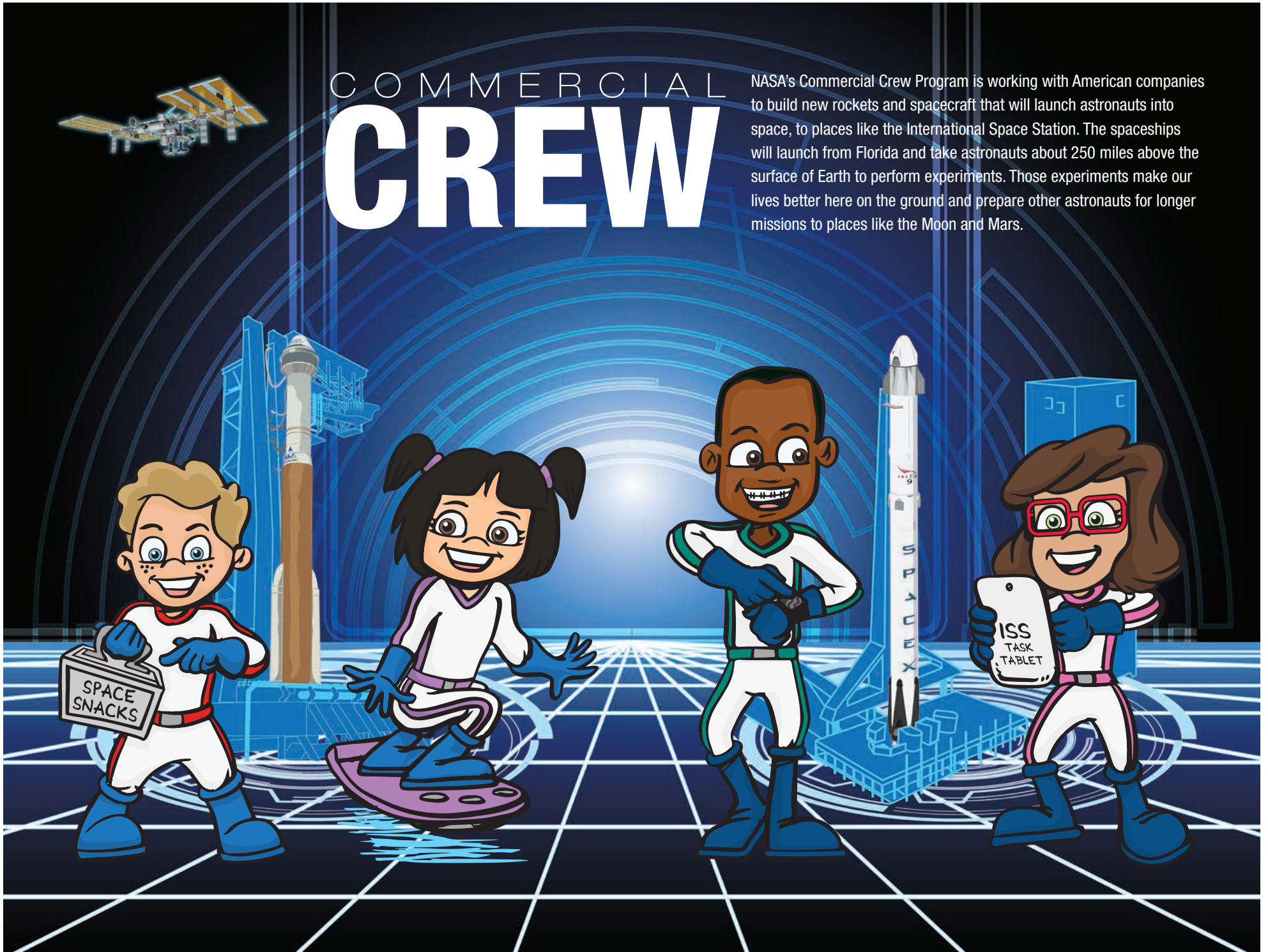
S

A

**Solar System**  
Chelsea, 10  
Agoura Hills, CA

# COMMERCIAL CREW

NASA's Commercial Crew Program is working with American companies to build new rockets and spacecraft that will launch astronauts into space, to places like the International Space Station. The spaceships will launch from Florida and take astronauts about 250 miles above the surface of Earth to perform experiments. Those experiments make our lives better here on the ground and prepare other astronauts for longer missions to places like the Moon and Mars.



## Boeing Crew Flight Test



**Nicole Aunapu Mann**  
NASA Astronaut  
Marine Corps  
Lieutenant Colonel

Selected as an Astronaut in 2013, this is Nicole's first spaceflight.



**Chris Ferguson**  
Boeing Astronaut  
Navy Captain (retired)

Piloted space shuttle Atlantis for STS-115, and commanded shuttle Endeavour on STS-126 and Atlantis on STS-135, the final flight of the Space Shuttle Program.



**Mike Fincke**  
NASA Astronaut  
Air Force Colonel (retired)

Aboard shuttle Endeavour on STS-134, Fincke served as Mission Specialist 1 on the flight deck and as a spacewalker and robotic arm operator.

## Boeing's First Operational Mission



**Suni Williams**  
NASA Astronaut  
Navy Captain (retired)

Spent 322 days in space on two space station missions, Expeditions 14/15 and Expeditions 32/33. Commander of the International Space Station on Expedition 33.



**Josh Cassada**  
NASA Astronaut  
Navy Commander

Selected as an Astronaut in 2013, this is Josh's first spaceflight.

## A NEW SPACE AGE

NASA's Commercial Crew Program spacecraft and rockets will carry up to four astronauts and about 220 pounds of cargo to and from the International Space Station. Commercial crew will resume human spaceflight launches from the United States and provide the nation with two unique spacecraft, two human-rated rockets and the necessary ground support systems. NASA and our commercial partners, Boeing and SpaceX, are working together to open access to low-Earth orbit.

### BUILDING A NEW AMERICAN CAPABILITY

NASA's Commercial Crew Program has been redefining space system development for low-Earth orbit by forming strong public-private partnerships with the aerospace industry to encourage innovation while maintaining NASA's high safety standards and leveraging NASA's 50 plus years of spaceflight experience. Commercial crew partners with industry to advance a diverse economic market in space including Blue Origin with spacecraft, engines and systems, and Sierra Nevada Corporation with the Dream Chaser spacecraft. NASA selected the Dream Chaser's cargo version to ferry supplies, equipment and experiments to and from the orbiting laboratory under the Commercial Resupply Services-2 contract. Both Sierra Nevada Corporation and Blue Origin are also working toward the goal of flying people to and from low-Earth orbit.

### PARALLEL PATH FOR EXPLORATION

NASA's work to turn over low-Earth orbit astronaut transportation to commercial companies, like Boeing and SpaceX, allows the agency to use other resources to develop the Orion spacecraft and Space Launch System rocket for missions into deep space. Both destinations—the International Space Station and deep space—are vital in the nation's space exploration efforts, and one cannot be successful without the other.

### FLIGHT TEST AND FIRST MISSION CREWS

NASA selected eight of its astronauts in August 2018 to crew the first flights of Boeing's Starliner and SpaceX's Crew Dragon. In addition, Boeing introduced its astronaut for the company's Crew Flight Test, for a total of nine crew members. These brave men and women will be the first to fly to space on American-made systems since the space shuttle's retirement.

Stay connected with

**NASA's Commercial Crew Program:**

[www.nasa.gov/commercialcrew](http://www.nasa.gov/commercialcrew)

[blogs.nasa.gov/commercialcrew](http://blogs.nasa.gov/commercialcrew)



[www.twitter.com/commercial\\_crew](https://www.twitter.com/commercial_crew)



[www.facebook.com/NASACommercialCrew](https://www.facebook.com/NASACommercialCrew)

## SpaceX Demo-2



**Bob Behnken**  
NASA Astronaut  
Air Force Colonel

Flew aboard space shuttle Endeavour twice as a Mission Specialist, first on STS-123 and then on STS-130.



**Doug Hurley**  
NASA Astronaut  
Marine Corps Colonel (retired)

Piloted space shuttle Endeavor for STS-127 and Atlantis for STS-135, the final space shuttle mission.

## SpaceX's First Operational Mission



**Mike Hopkins**  
NASA Astronaut  
Air Force Colonel

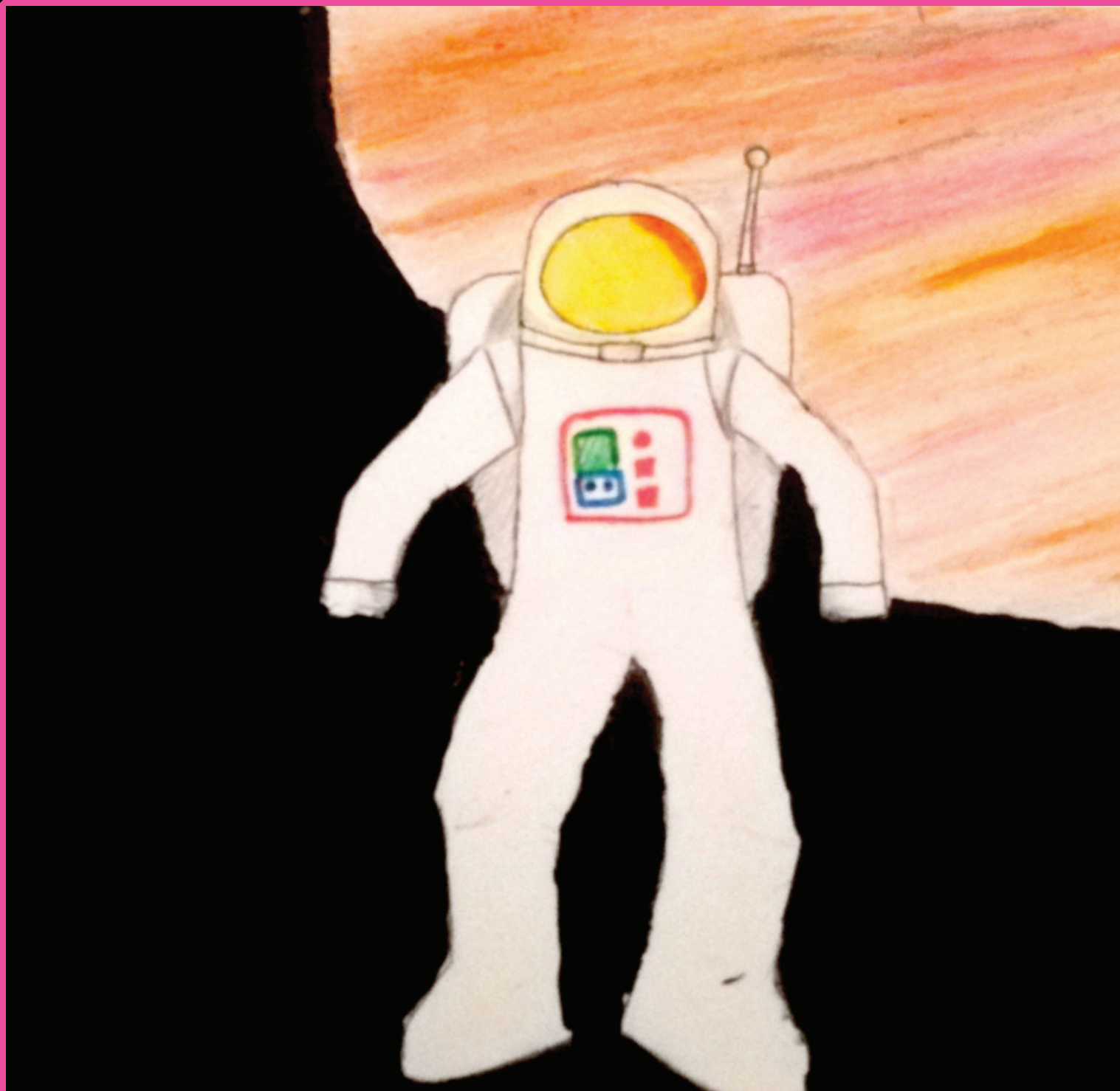
Spent 166 days on the International Space Station for Expeditions 37/38.



**Victor Glover**  
NASA Astronaut  
Navy Commander

Selected as an Astronaut in 2013, this is Victor's first spaceflight.

COMMERCIAL  
**CREW**



## Astronauts

NASA's astronauts have many skills and experiences that make them perfect for the variety of jobs they do both in space and on the ground. During their careers, astronauts could pilot a spacecraft, run experiments on the International Space Station, train new astronauts and even help guide other astronauts through challenging work in space from Earth.

Elitsa, 12  
Burgas, Bulgaria

# A Space Quest

*Sunday*

*Monday*

*Tuesday*

*Wednesday*

*Thursday*

*Friday*

*Saturday*

*December 2019*

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*February 2020*

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New Year's Day

5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20 Martin Luther King Jr. Day	21	22	23	24	25
26	27	28	29	30	31	



Astronauts  
Daniel, 8  
Duarte, CA



Space Sensation  
Twisha, 10  
Kent, United Kingdom

## Astronauts

There are nine U.S. astronauts who will be the first people to fly aboard commercial spacecraft from Boeing and SpaceX. They will be the first to launch from America since 2011 when the last space shuttle flew. To meet the crew, check out this YouTube clip at: <https://www.youtube.com/watch?v=RU6QkU8w60c>.

*January*  
2020



### **Astronaut Training**

When astronauts are in space, they must perform physical fitness activities to keep them healthy and strong while living and working in microgravity. They currently can use a stationary bicycle, a treadmill and weight machines.

Chloe, 7  
Hong Kong, China

# A Tense Training

*Sunday*

*Monday*

*Tuesday*

*Wednesday*

*Thursday*

*Friday*

*Saturday*

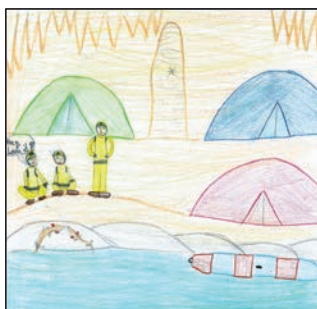
*January 2020*

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*March 2020*

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9	10	11	12	13	14 Valentine's Day	15	
16	17 Washington's Birthday	18	19	20	21	22	
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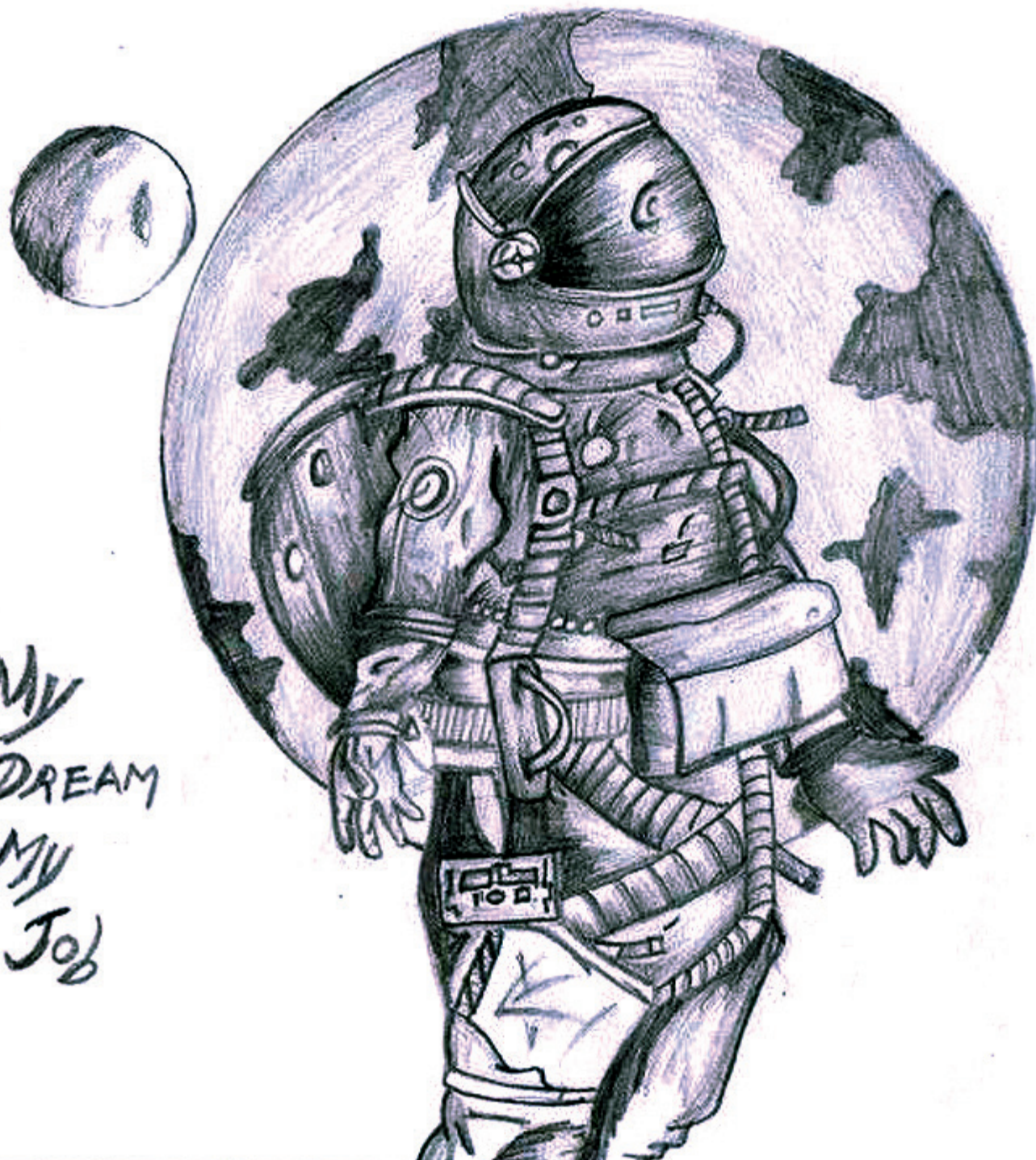
## **Astronaut Training**

Do you want to know how astronauts prepare for possible emergencies or how they put on their spacesuits? Maybe you are interested in how they get ready for flight on top of a rocket. Find all this and more at <https://www.youtube.com/watch?v=gpouNl1sggA>.

Astronaut Training in the Cave  
 Nyah, 10  
 Vodice, Slovenia

*February*  
 2020

My  
DREAM  
My  
Job



## Spacesuits

An astronaut's space walk spacesuit is like his or her own personal spacecraft. Spacesuits keep astronauts safe by providing breathable air and keeping them warm and cool. Spacesuits also are pressurized like the inside of a flying airplane so that the astronauts are safe in space. Spacesuits allow the astronauts to be in constant communication with doctors and medical professionals who track their health here on the ground.

Kizar, 11  
Trichy, India



# Spacesuit

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15	16	17 Saint Patrick's Day	18	19	20 Spring Begins	21
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29	30	31	February 2020 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29		April 2020 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	



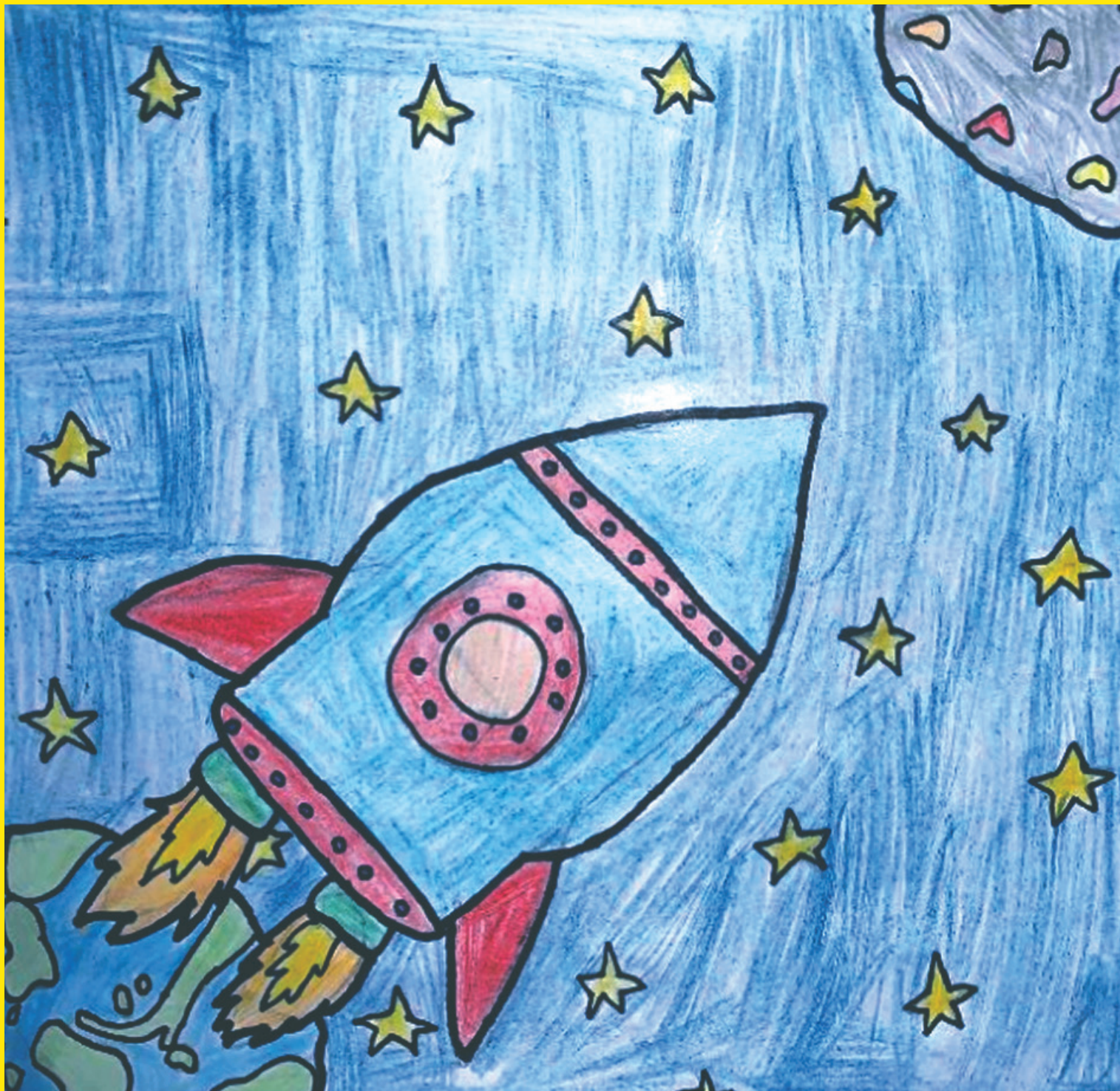
## Spacesuits

New rides, new suits! Both Boeing and SpaceX have designed spacesuits for the new astronaut crews that will be launching on their rockets. The suits are full of new technologies and you can learn more about them at: <https://www.nasa.gov/feature/newspacesuit-unveiled-for-starliner-astronauts>.

Suit of the Future  
 Uma, 9  
 Newcastle, United Kingdom

# March

2020



### **Spacecraft**

Spacecraft carrying astronauts are stacked on top of rockets before launching them into space. The Apollo spacecraft was very different from the space shuttle, and both are very different from the commercial crew spacecraft that astronauts will use to fly to the International Space Station. Today's commercial crew spacecraft will be lightweight, but tough enough to withstand the dangers of space.

Anya, 9  
Hepscott, United Kingdom

# Blast Off

*Sunday*

*Monday*

*Tuesday*

*Wednesday*

*Thursday*

*Friday*

*Saturday*

*March 2020*

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*May 2020*

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Easter

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## Spacecraft

Do you want to know what the new commercial crew capsules that will fly to the International Space Station are like? Both Boeing's Starliner and SpaceX's Crew Dragon are featured here: <https://www.youtube.com/watch?v=zrBTu389aqY&t=3s>.

Wonderful Railway  
Mon, 10  
Hong Kong, China

*April*  
2020



## **Rockets**

The commercial crew rockets that will carry astronauts to the International Space Station will be smaller than NASA's Saturn V rocket and the space shuttle fleet. They don't have to go as far as the Saturn V and don't have to carry as much as the space shuttle, so they don't need to be as big. Think of it like going to visit your friends. You would take a bus to see someone in another state, but you could just take your bike to visit someone who lived down the street.

Vincent, 8  
Bayamon, Puerto Rico

# Space Scooter

*Sunday*

*Monday*

*Tuesday*

*Wednesday*

*Thursday*

*Friday*

*Saturday*

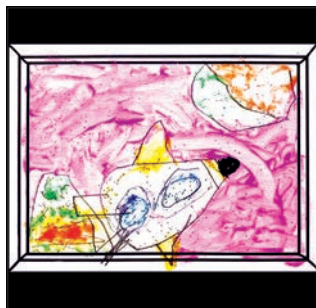
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*June 2020*

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10 Mother's Day	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25 Memorial Day	26	27	28	29	30
31						



### **Rockets**

Commercial crew has launched a new app! Select your partner, mission, and crew. Then put your skills to the test as you launch and dock with the International Space Station. You can learn more about the real-life missions, dynamic vehicles and spacecraft as well as the heroes who make it all happen to ensure mission success: <https://rocketsciencec2e.ksc.nasa.gov/>.

Moon Rocket  
Catherine, 6  
Orlando, FL

*May*  
2020



### **Launch Day in Florida**

The rumble... the glow... the excitement! Every time NASA has launched people off the surface of Earth and into space, it has been from Florida's Space Coast. Commercial crew rockets will glow orange and make huge plumes of smoke as astronauts launch to the International Space Station from Florida. In the 2030s, we also will see astronauts launching from Florida's Kennedy Space Center as they fly back to the Moon and on to Mars.

Hailey, 11  
Issaquah, WA

# Behind the Scene

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>																																																																												
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28	29	30	<p><i>May 2020</i></p> <table border="1"> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td></tr> <tr><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr> <tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							<p><i>July 2020</i></p> <table border="1"> <tr><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td></tr> </table>					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
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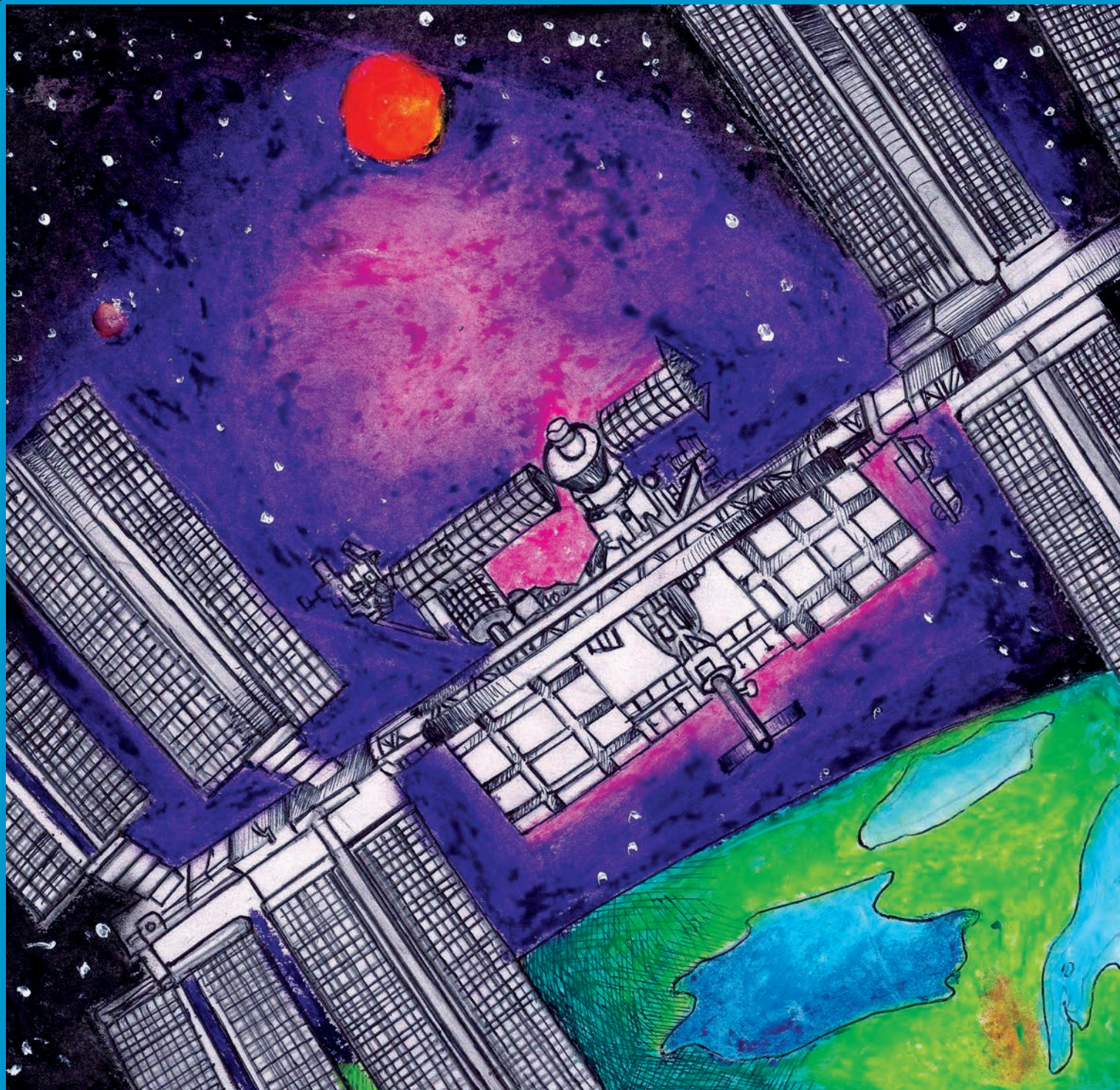
## Launch Day in Florida

SpaceX's Demo-1, the first test flight of NASA's Commercial Crew Program, launched from Kennedy Space Center in Florida on March 1, 2019. Crew Dragon was the first commercially-built spacecraft designed to carry people to dock to the International Space Station. Watch highlights of the seven-day mission at <https://www.youtube.com/watch?v=NhKFBW3S8Pg>.

Launch Day in Florida  
Aashish, 11  
Bangalore, India

# June

2020



## **International Space Station**

Look up! The International Space Station is orbiting about 250 miles above the surface of Earth, 24 hours a day, seven days a week, 365 days a year, at 17,500 miles every hour. On board, astronauts conduct very important experiments that help us here on Earth. They also are learning how to live for long periods of time in space, which will help future astronauts as they live on the Moon and Mars. Commercial crew spacecraft will carry up to four crew members on NASA missions to the station so that important experiments can continue.

Daniel, 11  
Ernakulam, India



# International Space Station

*Sunday*

*Monday*

*Tuesday*

*Wednesday*

*Thursday*

*Friday*

*Saturday*

*June 2020*

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*August 2020*

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Independence Day

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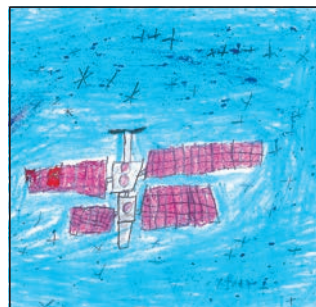
**28**

**29**

**30**

**31**

My Space Station  
Tanush, 6  
Dartford Kent, United Kingdom



**Station**

The International Space Station is the brightest object in the sky and you can find it just by looking up! Find out when you can "Spot the Station" in your own backyard, at <https://spotthestation.nasa.gov/>.

You can also see STEM demonstrations being done on the ISS at <https://www.nasa.gov/stemonstrations>.

*July*  
2020



## Living and Working in Space

For nearly 20 years, astronauts have lived and worked in space on the International Space Station. They do all the same kinds of things you do here on Earth! They sleep and eat and take baths and work hard and exercise! A lot of their work is about studying how to survive in locations far from Earth, like on the Moon and Mars!

Hoi, 13  
Hong Kong, China

# Our Daily Work

*Sunday*

*Monday*

*Tuesday*

*Wednesday*

*Thursday*

*Friday*

*Saturday*

July 2020

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September 2020

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## Living and Working in Space

Living in space is not the same as living on Earth. What are the astronauts doing on the International Space Station? They work, eat, sleep and exercise to stay healthy, just like we do on Earth, but microgravity makes things a little more interesting. Check it out here!

<https://www.nasa.gov/audience/foreducators/stem-on-station/dayinthelife>

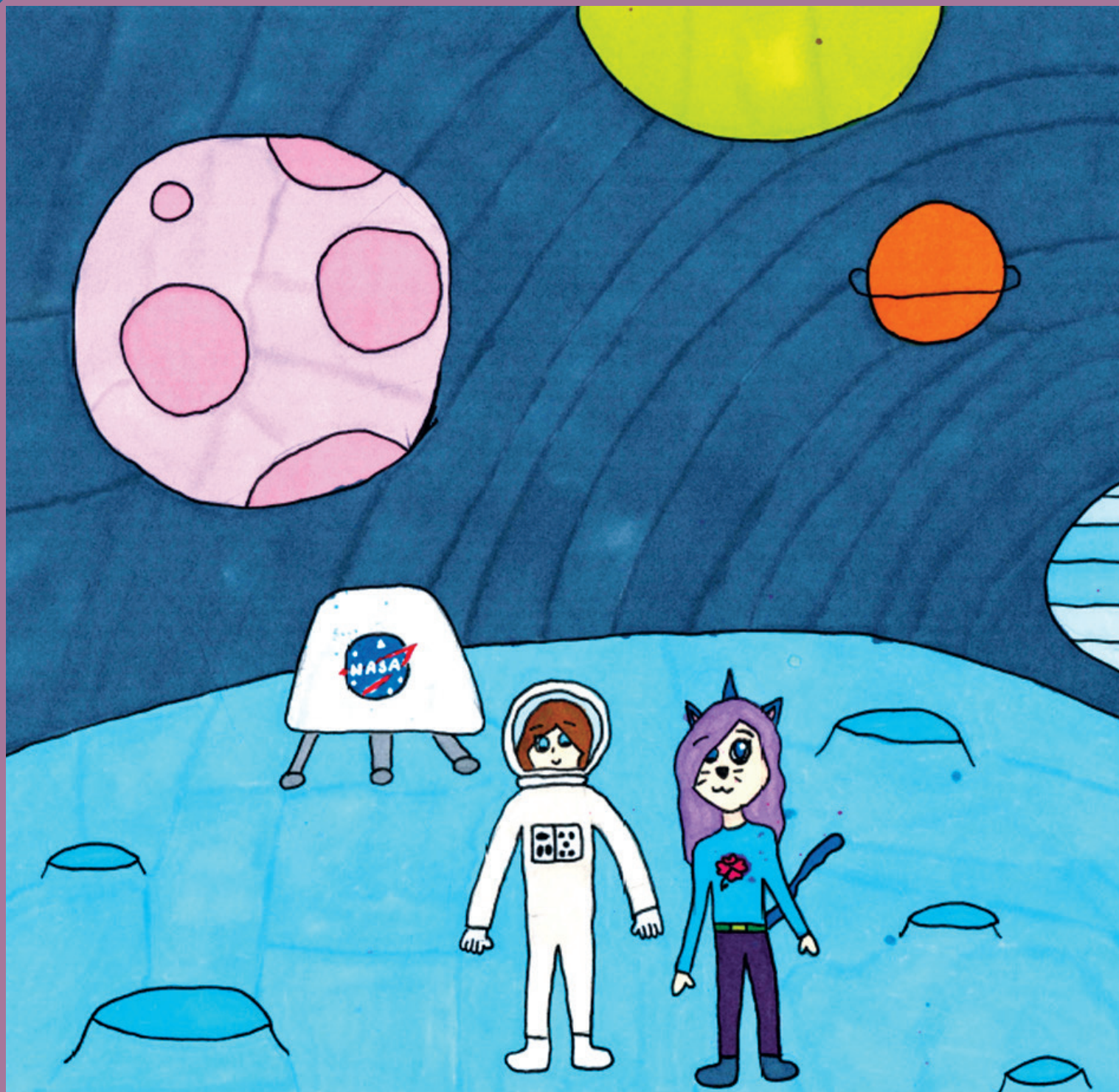
<https://www.nasa.gov/content/explore-the-diverse-ecosystem-of-experiments-being-researched-on-iss>

Sketching Under the Stars

Aisha, 11

West Java, Indonesia

*August*  
2020



## Exploring the Solar System

Every day, NASA explores deeper into our solar system—making new and exciting discoveries. From the two Voyager spacecraft that have taken us on a journey of our solar system for the past 40 years, to robotic explorers on Mars right now, we are learning about the many challenges that must be overcome for human space exploration.

Barbara, 11  
Szczecin, Poland

# Making New Friends

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
<i>August 2020</i> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<i>October 2020</i> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1	2	3	4	5
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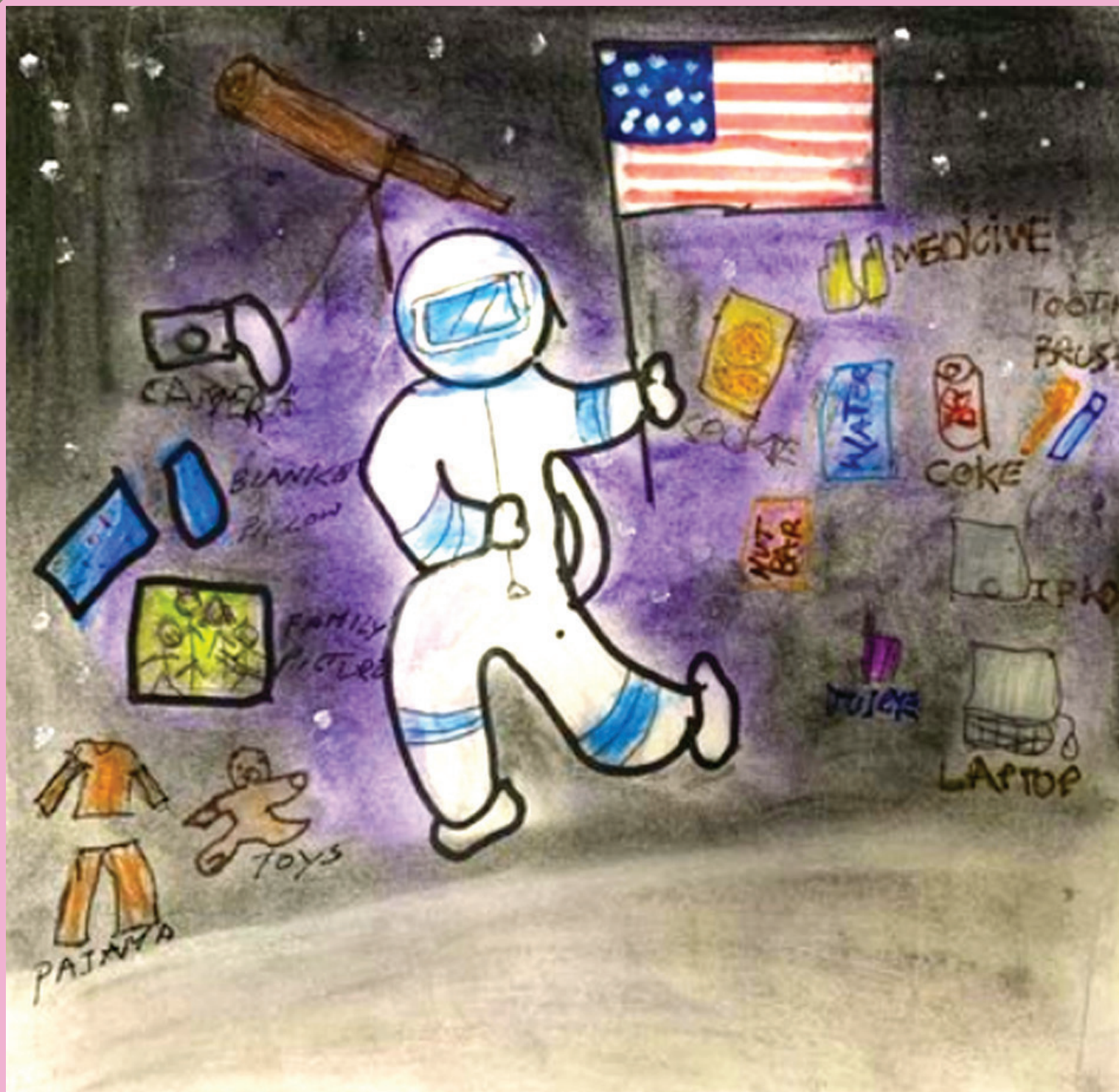
## Exploring the Solar System

Our solar system is located in the vast Milky Way Galaxy. It consists of the Sun (our star) and everything that orbits around it, including the eight planets and their natural satellites (like our Moon), dwarf planets, asteroids and comets. More than 300 robotic spacecraft have explored destinations beyond Earth's orbit, including 24 astronauts who orbited the Moon, helping us learn how we can safely explore deep space and make exciting discoveries. Go here to find activities that you can do: <https://solarsystem.nasa.gov/kids/do-it-yourself>.

My Friend and I  
 Pak, 4  
 Hong Kong, China

# September

2020



### What would you take from Home?

Today, every astronaut goes to space to do very special work. But because they're gone so long, they each take some personal items to remind them of home or small things to do during their limited free time. Some of those things astronauts take include musical instruments, MP3 players, or small toys.

Saketh, 5  
Frisco, TX

# What I Will Take from Home to Space

*Sunday*

*Monday*

*Tuesday*

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*Thursday*

*Friday*

*Saturday*

*September 2020*

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*November 2020*

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11	12 Columbus Day	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31 Halloween



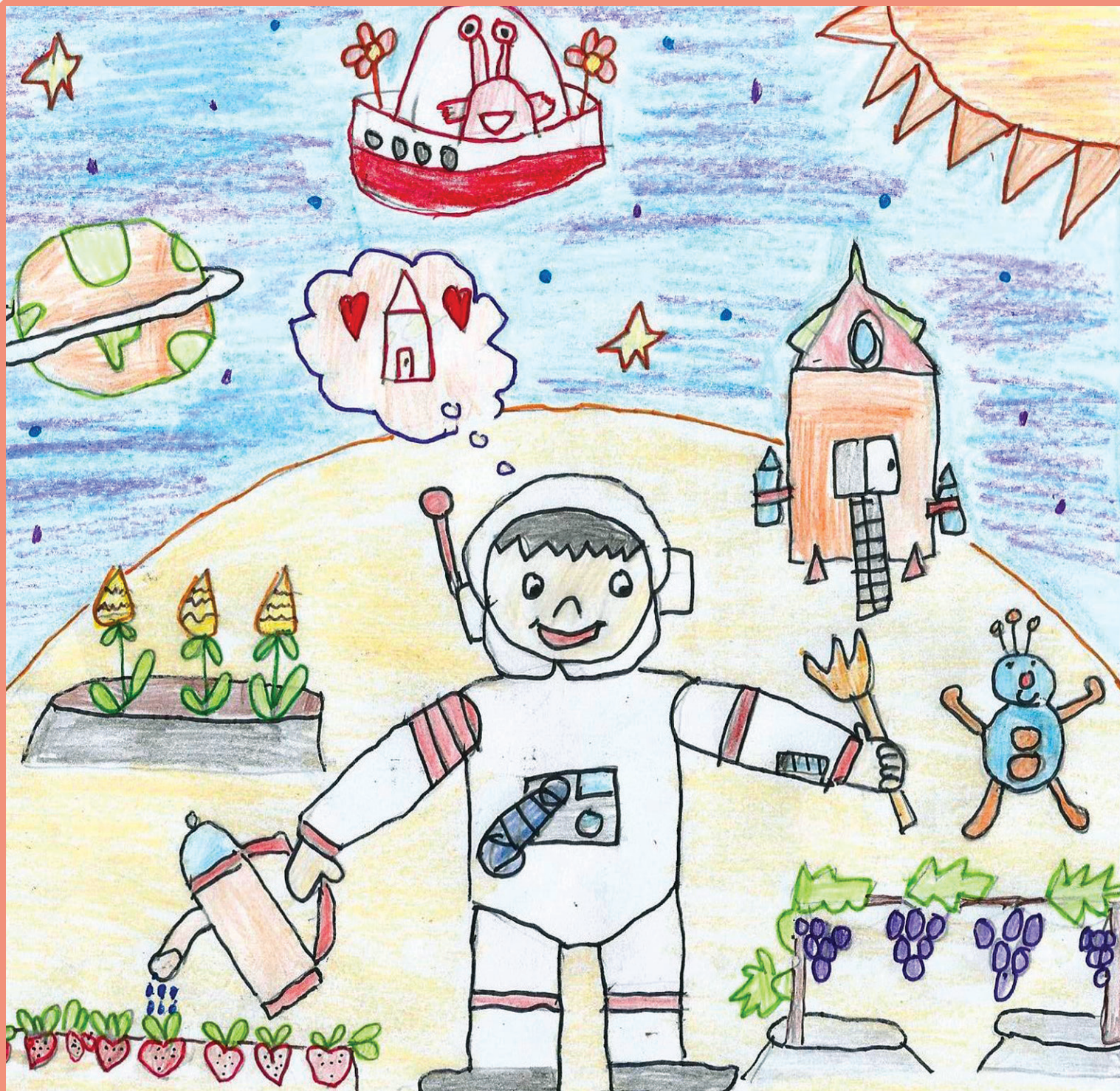
## **What would you take from Home?**

The International Space Station is about 250 miles from Earth, but astronauts usually spend months at a time there. What would you take with you? What would you do to stay busy? The astronauts have special jobs to do while they are in space, but they also have some free time. Whatever the destination in space, you're going to need to plan carefully!

[https://spaceplace.nasa.gov/review/classroom-activities/pdf/mars\\_packing.pdf](https://spaceplace.nasa.gov/review/classroom-activities/pdf/mars_packing.pdf)

The Creator  
Adyaashree, 6  
New Delhi, India

*October*  
2020



### Space Food

There are no grocery stores in space. When new supplies are sent to the International Space Station, there's always some fresh food like fruits and vegetables, but almost everything is prepackaged so it will last a long time. The goal is for astronauts to eventually grow crops that can help supplement their nutrition. We've also discovered growing plants in space can make the astronauts happy since it reminds them of Earth.

Arjun, 8  
Newcastle, United Kingdom



# Space Food

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>																																																																			
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29	30	<p><i>October 2020</i></p> <table border="1"> <tr><td></td><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td><td>19</td></tr> <tr><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td><td>31</td></tr> </table>			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	<p><i>December 2020</i></p> <table border="1"> <tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td></tr> <tr><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </table>			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
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## Space Food

How would you feed a crew of four astronauts on a 75-million-mile trip in space? That's how far they travel during a six month stay on the station. There are no grocery stores, gardens, farms, fertile soil or a resupply vehicle! The goal is for astronauts to eventually grow crops that can help supplement their nutrition. Growing plants in space can make the astronauts happy, because it reminds them of Earth!

<https://www.nasa.gov/content/space-food-systems>

<https://www.youtube.com/user/ReelNASA/search?query=space+food>

<https://www.youtube.com/watch?v=DWkowiB1To>

From Space Gardens to Dining Table  
 Thanumi, 5  
 Sonthern, Sri Lanka

# November

2020



### **Returning to Earth**

What goes up, must come down! After flying through space and re-entering the Earth's atmosphere at about 17,500 miles per hour, spacecraft have to land slowly and smoothly to protect the astronauts and science experiments they carry. Commercial crew engineers are looking at different ways to land with parachutes, airbags, like airplanes, or using rocket engines.

Deepshikha, 10  
Noida, India

# Welcome Back Mom

<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	<i>Friday</i>	<i>Saturday</i>
<i>November 2020</i> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	<i>January 2021</i> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b> Hanukkah Begins	<b>12</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>
<b>20</b>	<b>21</b> Winter Begins	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b> Christmas Day	<b>26</b>
<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b> New Year's Eve		



## Returning to Earth

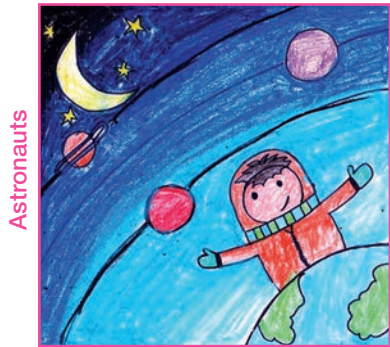
Did you know NASA is celebrating 20 years of human presence on the International Space Station? More than 220 people from 17 countries have visited the space station over the past twenty years. Learn about the discoveries aboard station that have improved life here on Earth at [https://www.nasa.gov/mission\\_pages/station/main/index.html](https://www.nasa.gov/mission_pages/station/main/index.html)

Returning to Earth  
 Angelo, 10  
 Western Cape, South Africa

# December

2020

# Runners Up



Astronauts  
Rifa, 4 Coonoor, India



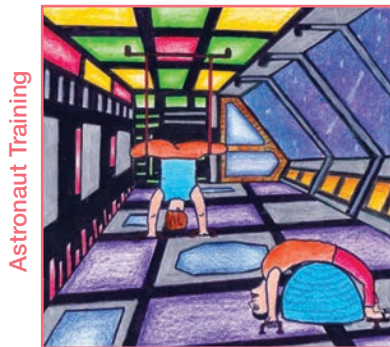
Spacecraft  
Samridhi, 11 Dehradun, India



International Space Station  
Rithvik, 10 Tamil Nadu, India



What Would You Take from Home?  
Vibulan, 4 Dindigul, India



Astronaut Training  
Sumedha, 12 Bangalore, India



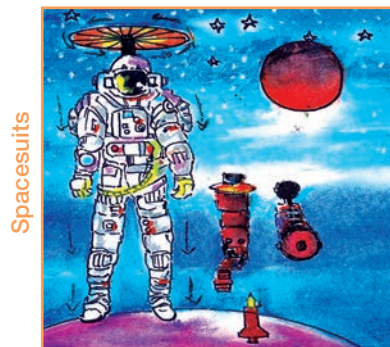
Rockets  
Alondra, 8 Naranjito, Puerto Rico



Living and Working in Space  
Dominik, 5 South Tyrol, Italy



Space Food  
Ivy, 10 Orlando, FL



Spacesuits  
Yashwanth, 11 Dindigul, India



Launch Day in Florida  
Lorena, 10 Oak Park, CA



Exploring the Solar System  
Marisah, 11 Sugar Grove, NC



Returning to Earth  
Nora, 6 Grove City, OH

NASA's Commercial Crew Program is working with American companies to build new rockets and spacecraft that will launch astronauts into space, to places like the International Space Station. These spaceships will launch from Florida and take astronauts about 250 miles above the surface of Earth to perform experiments. Those experiments make our lives better here on the ground and prepare other astronauts for longer missions to places like the Moon and Mars.

For more information, go to: [www.nasa.gov/commercialcrew](http://www.nasa.gov/commercialcrew) and <http://blogs.nasa.gov/commercialcrew>

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