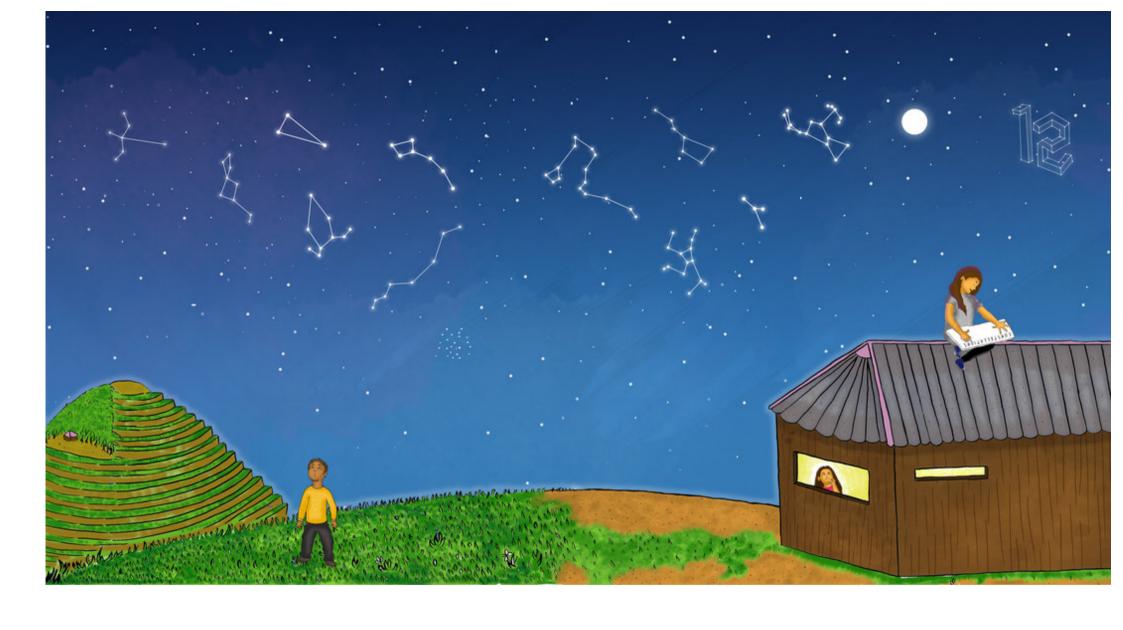




3... 2... 1... Blast-off!

Authors: Praba Ram, Sheela Preuitt **Illustrator:** Vidyun Sabhaney

Level 3

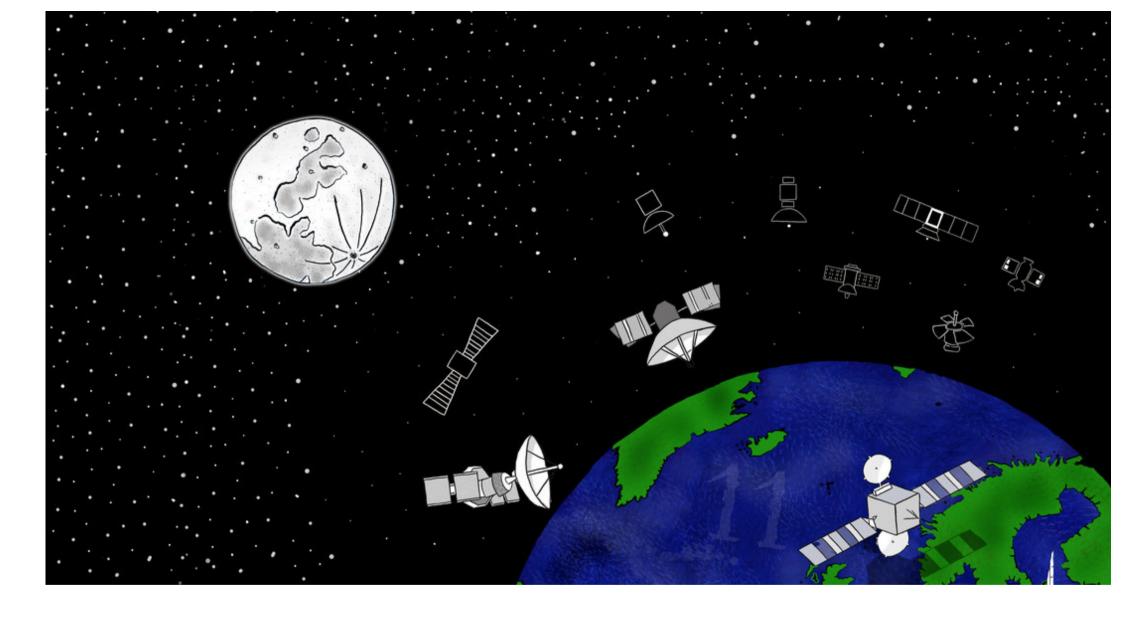


12 dreamy constellations floating in space

A CONSTELLATION is a group of stars that forms a pattern in the sky.

It sometimes looks like a mythological character or an animal if you have a good imagination.

Cygnus, Lacerta, Triangulum, Cepheus, the Little Dipper, Lynx, Draco, Hercules, the Big Dipper, Scutum and Orion are names of the constellations on page 2.



11 shiny satellites up in the sky





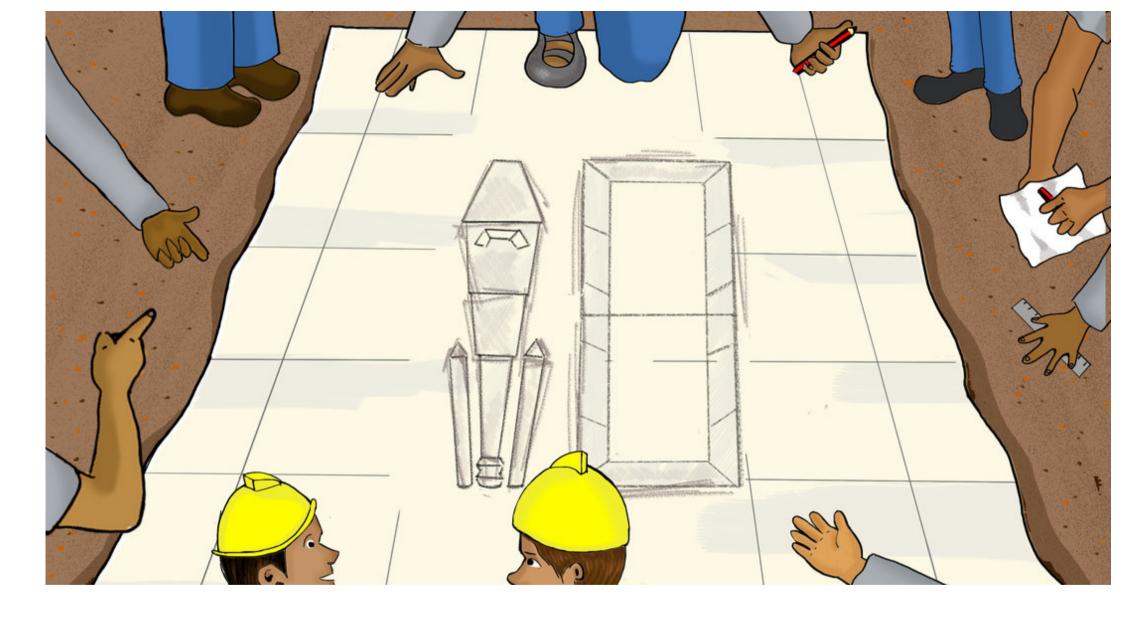




A SATELLITE is an object that goes around a planet or a star.

Earth has a natural satellite -- the moon. Artificial satellites are launched into space for communications, astronomy, and weather studies.

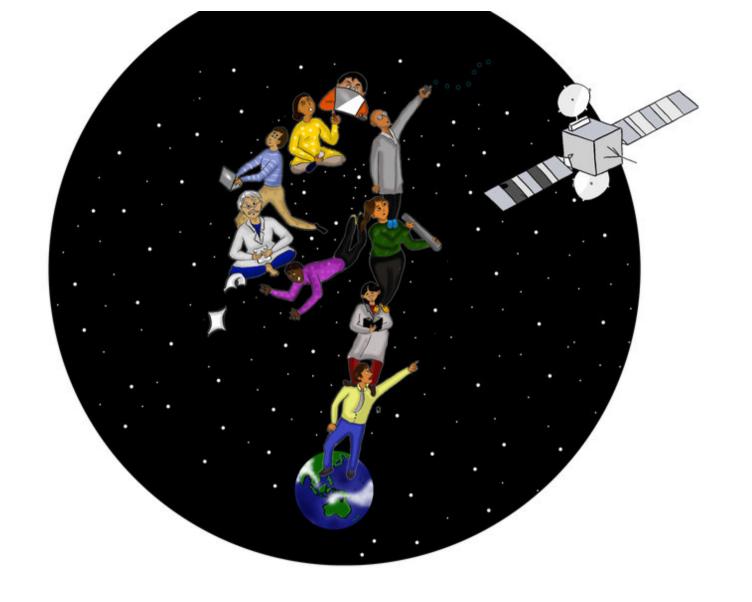




10 busy engineers working on a rocket

Mechanical ENGINEERS, electrical ENGINEERS, and electronics ENGINEERS work together to assemble a rocket.

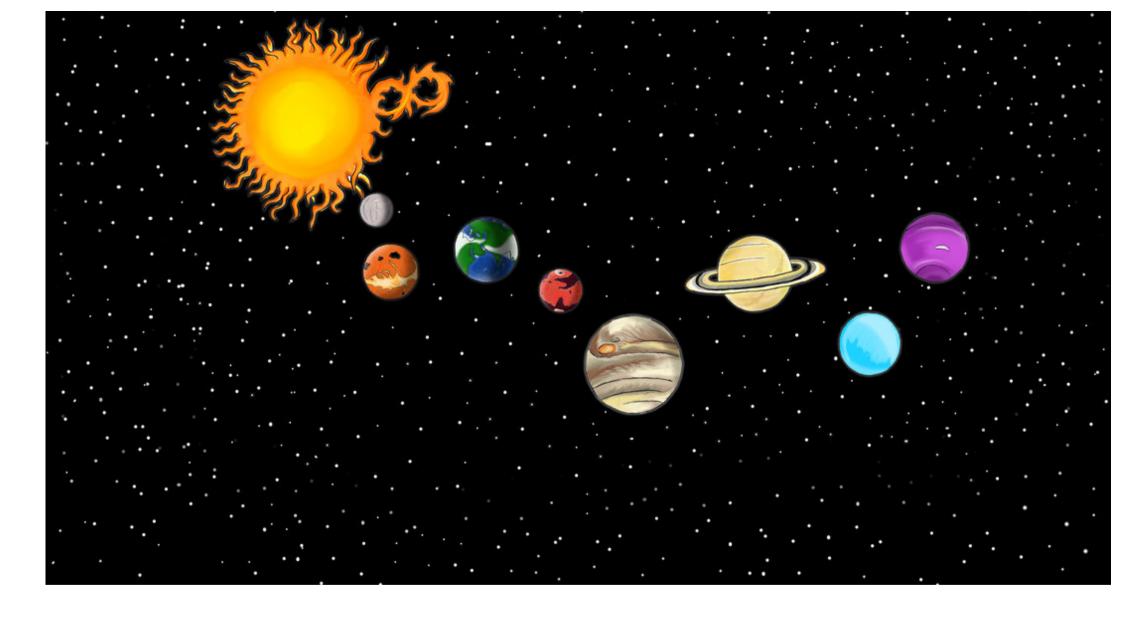




9 expert scientists calculating the orbit

SCIENTISTS figure out what path the satellite will take when it is in space.

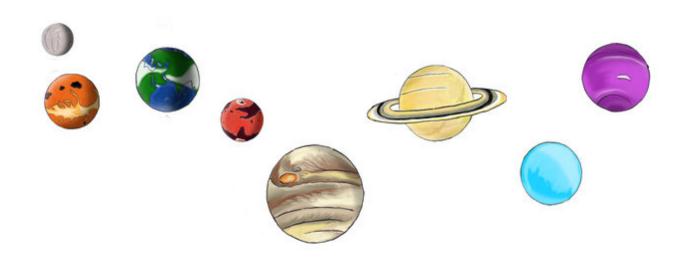
The path was called orbit.

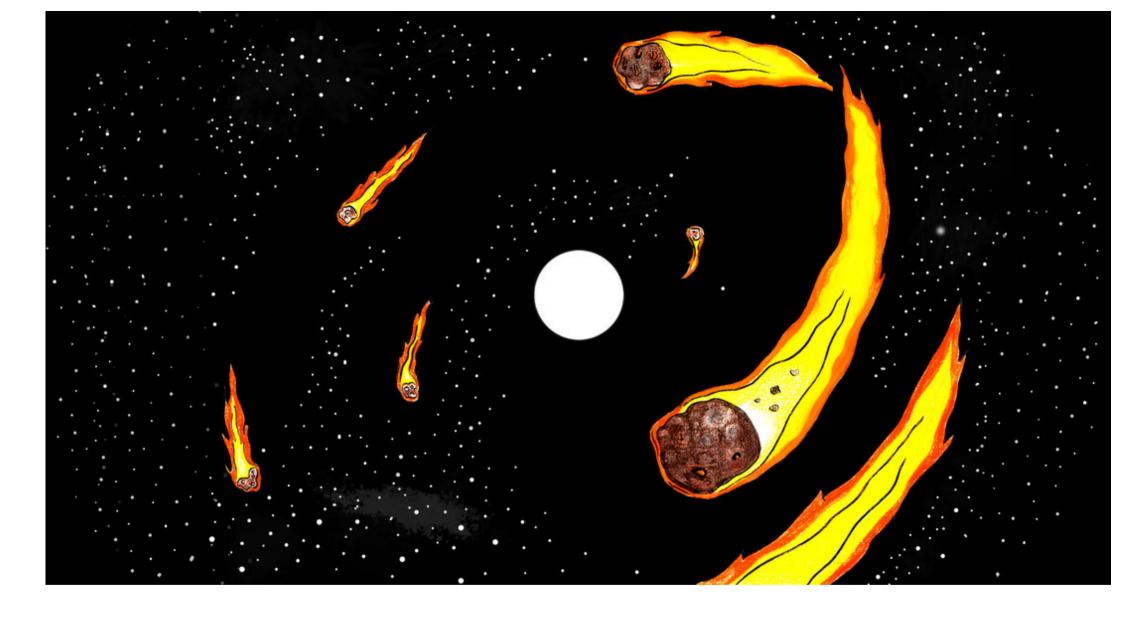


8 stable planets going around the sun

Four rocky inner PLANETS -- Mercury, Venus, Earth, Mars -- and four gassy outer PLANETS -- Jupiter, Saturn, Uranus, Neptune -- make up the eight major PLANETS of our solar system.

Pluto used to be the ninth planet but in 2006, International Astronomical Union (IAU) decided that Pluto was a dwarf planet.





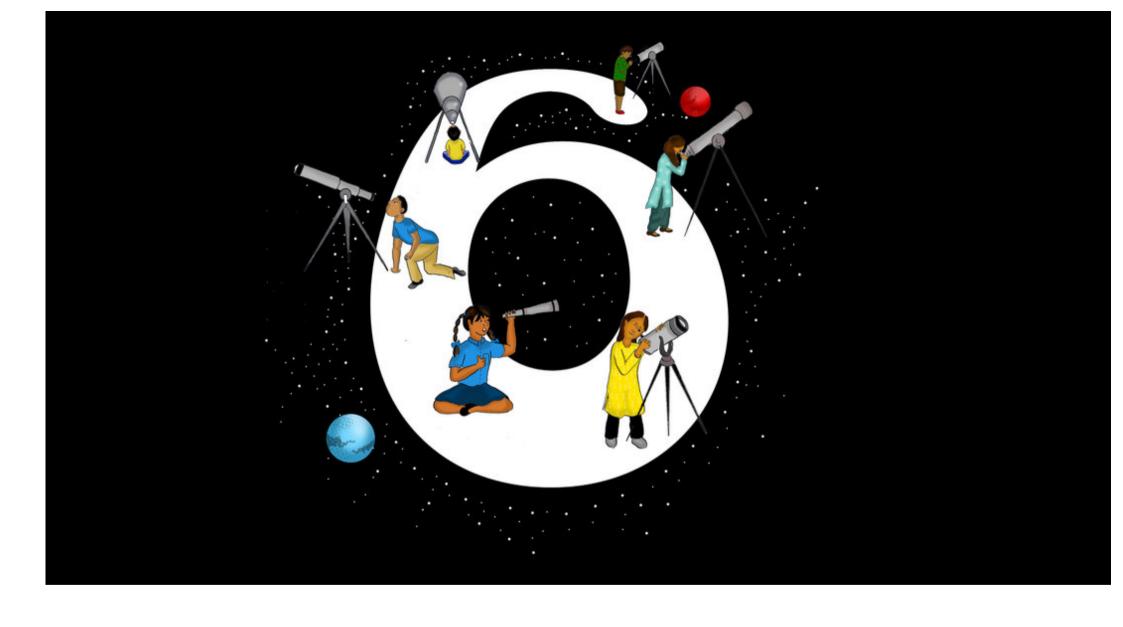
7 icy comets passing through



COMETS are large chunks of ice, rock and gas.
They orbit the Sun, but are usually far from Earth.
As they pass, they leave a trail that looks like a tail.
Some famous comets are Hale-Bopp, Halley,
Hyakutake and Shoemaker-Levy.





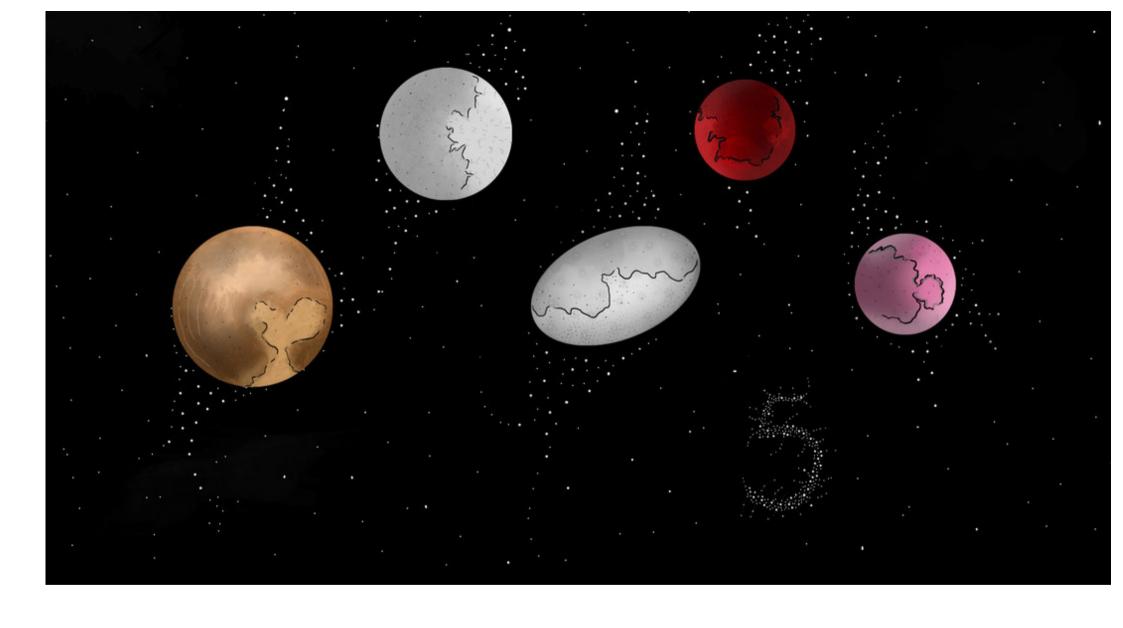


6 curious people looking through telescopes



TELESCOPES help us see objects that are far, far away like the comets, stars, planets, and moons.





5 small dwarf planets hanging around





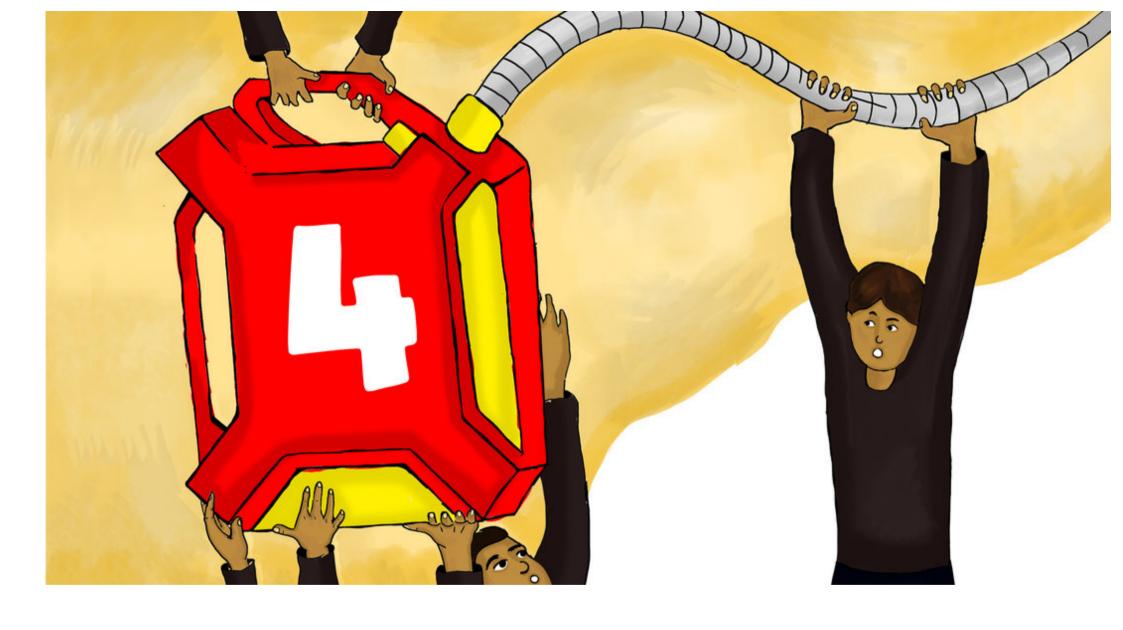






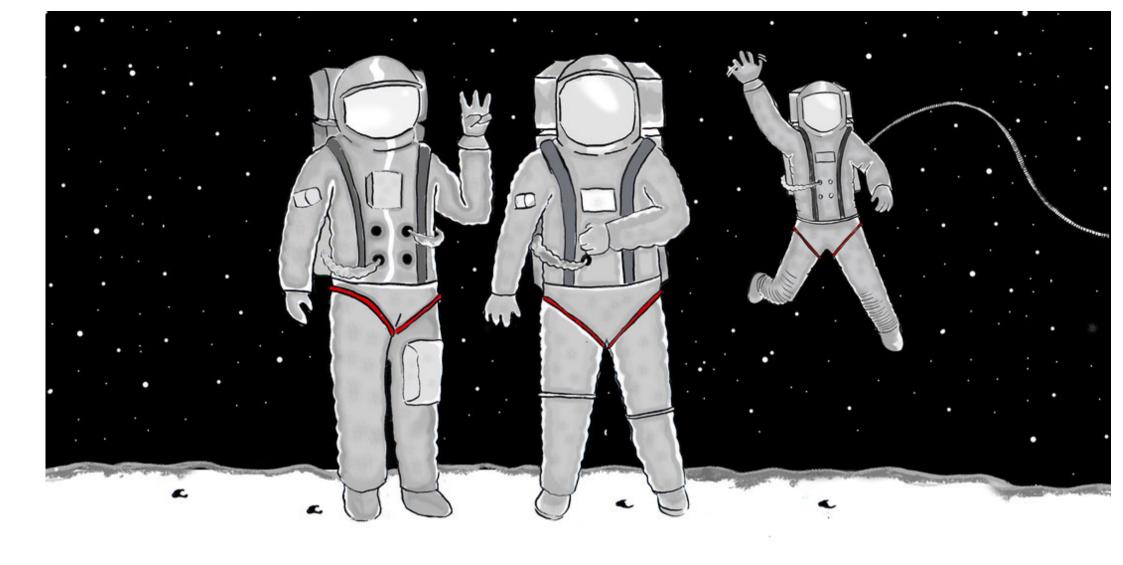
DWARF PLANETS are like planets but they are much smaller and they do not yet have a clear path around the Sun.

This means that objects like asteroids and comets litter their path. Pluto, Ceres, Eris, Makemake and Haumea make up the five recognized dwarf planets of our solar system.

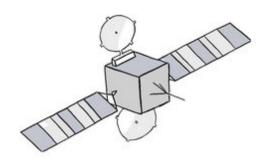


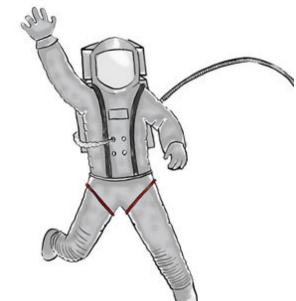
4 careful workers fueling the rocket





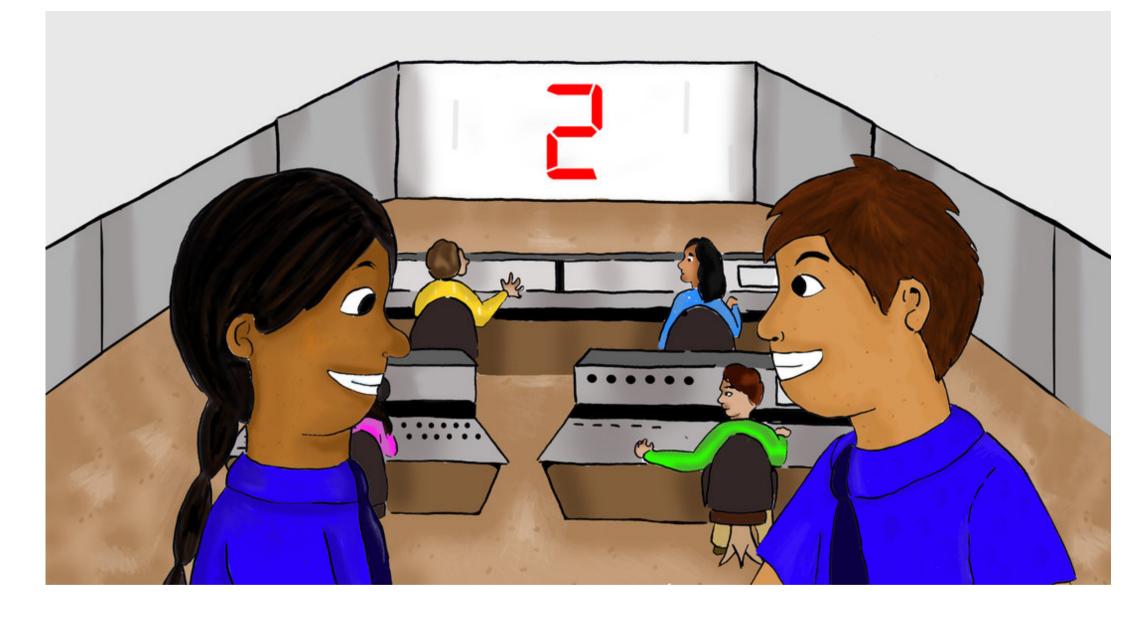
3 skilled astronauts in their spacesuits





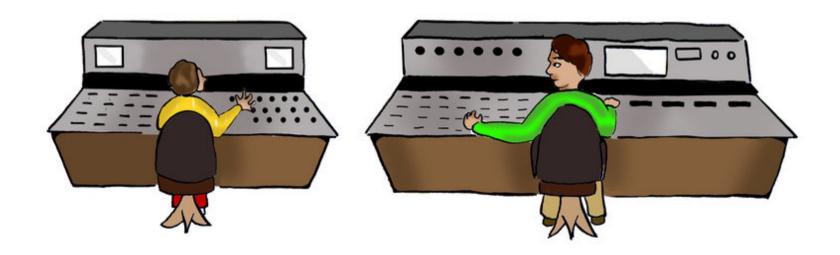
SPACESUITS protect astronauts in space.
Suits have oxygen supplies for astronauts to breathe, and also water to drink.

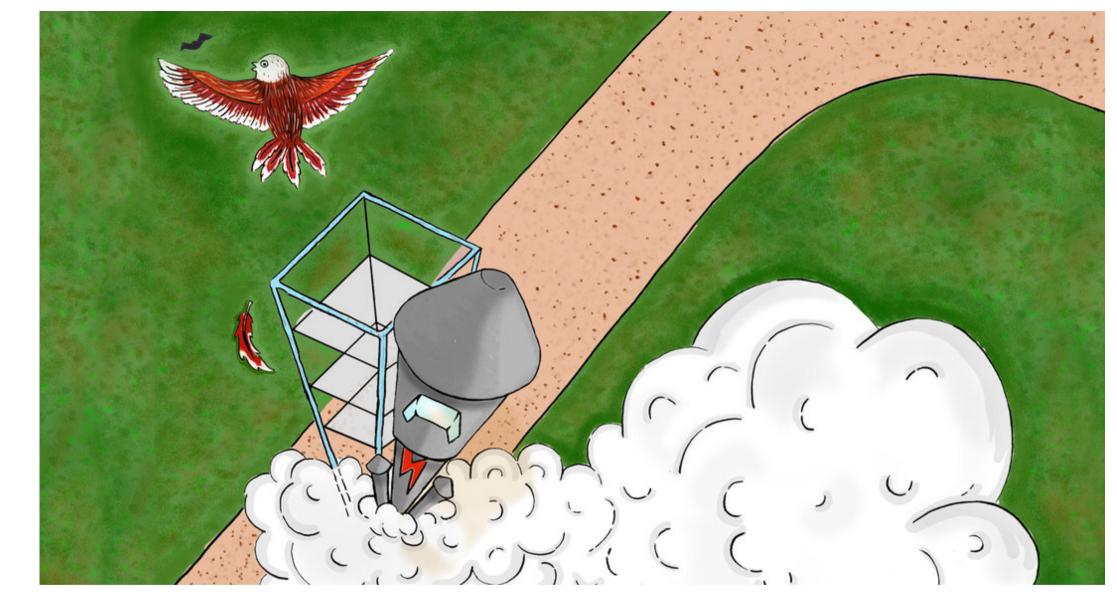
They prevent astronauts from getting too hot or too cold, and keep them safe from space dust.



2 eager kids at the mission control centre...

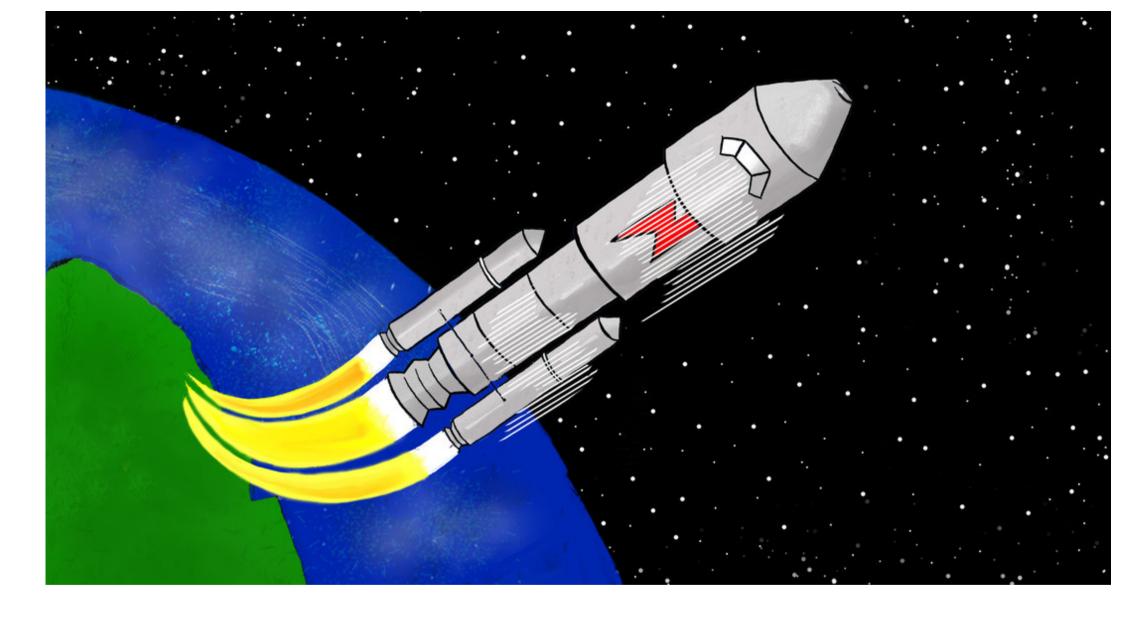
MISSION CONTROL CENTRE is a room where team leaders get together and make sure the launch goes smoothly and everything works as designed till the mission is complete.





1 roaring rocket ready to soar!

A ROCKET is a self-propelled vehicle that can shoot into space. It is used to launch man-made satellites into space.



Blast-off!



India created a world record in 2017 when it launched 104 satellites from a single rocket, PSLV-C37.

Scientists at the Indian Space Research Organisation (ISRO) launched the rocket from the Satish Dhawan Space Centre in Sriharikota, Andhra Pradesh.





This book was made possible by Pratham Books' StoryWeaver platform. Content under Creative Commons licenses can be downloaded, translated and can even be used to create new stories - provided you give appropriate credit, and indicate if changes were made. To know more about this, and the full terms of use and attribution, please visit the following <u>link</u>.

Story Attribution:

This story: 3... 2... 1... Blast-off! is written by Praba Ram, Sheela Preuitt. © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license.

Other Credits:

'3... 2... 1.... Blast-off!' has been published on StoryWeaver by Pratham Books. The development of this book has been supported by CISCO. www.prathambooks.org

Images Attributions:

Cover page: Rocket taking off and a bird flying straight up by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 2: Boy looking up at the sky, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 3: Blue, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 4: Satellites in space, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 5: Earth and satellites, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 6: People designing a rocket, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 8: People floating in space, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 9: The solar system, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 10: The eight planets, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 11: Seven comets, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 11: Seven comets, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 11: Seven comets, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license.

Disclaimer: https://www.storyweaver.org.in/terms and conditions



A Corporate Social Responsibility Initiative



This book was made possible by Pratham Books' StoryWeaver platform. Content under Creative Commons licenses can be downloaded, translated and can even be used to create new stories - provided you give appropriate credit, and indicate if changes were made. To know more about this, and the full terms of use and attribution, please visit the following <u>link</u>.

Images Attributions:

Page 12: More comets, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 13: People with telescopes, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 14: Planets through the telescope, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 15: Some dwarf planets, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 17: Fuelling tank, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 18: Beige background, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 19: Three astronauts, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 20: An astronaut and a satellite by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 21: Two children look at each other, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 22: Two employee on the controls, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 23: The rocket takes off, by Vidyun Sabhaney © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license.

Disclaimer: https://www.storyweaver.org.in/terms and conditions



A Corporate Social Responsibility Initiative



This book was made possible by Pratham Books' StoryWeaver platform. Content under Creative Commons licenses can be downloaded, translated and can even be used to create new stories - provided you give appropriate credit, and indicate if changes were made. To know more about this, and the full terms of use and attribution, please visit the following Link.

Images Attributions:

Page 24: <u>Blast-off</u>, by <u>Vidyun Sabhaney</u> © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license. Page 25: <u>Successful launch</u>, by <u>Vidyun Sabhaney</u> © Pratham Books, 2018. Some rights reserved. Released under CC BY 4.0 license.

Disclaimer: https://www.storyweaver.org.in/terms and conditions



CISCO. A Corporate Social Responsibility Initiative

3... 2... 1... Blast-off! (English)

This count-down book introduces readers to fascinating celestial objects, to space concepts and to the people involved in the various facets of astronomy. It may just inspire them to take a step towards a career in astronomy. Come, let us go space travelling!

This is a Level 3 book for children who are ready to read on their own.



Pratham Books goes digital to weave a whole new chapter in the realm of multilingual children's stories. Knitting together children, authors, illustrators and publishers. Folding in teachers, and translators. To create a rich fabric of openly licensed multilingual stories for the children of India and the world. Our unique online platform, StoryWeaver, is a playground where children, parents, teachers and librarians can get creative. Come, start weaving today, and help us get a book in every child's hand!