The Sideways-Spinning Planet

TOON

....

Ellen Lawrence

[Intentionally Left Blank]



by Ellen Lawrence

Consultants:

Suzy Gazlay, MA Recipient, Presidential Award for Excellence in Science Teaching

> **Kevin Yates** Fellow of the Royal Astronomical Society



Published in 2014 by Ruby Tuesday Books Ltd.

Copyright © 2014 Ruby Tuesday Books Ltd.

All rights reserved. No part of this publication may be reproduced in whole or in part, stored in any retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from the publisher.

Editor: Mark J. Sachner Designer: Emma Randall

Photo Credits: NASA: Cover, 6, 8, 10, 11 (top), 12, 13 (top), 14–15, 16, 18–19, 20–21; Ruby Tuesday Books: 7, 9, 22; Science Photo Library: 17; Shutterstock: 11 (bottom), 13 (bottom); Superstock: 4–5.

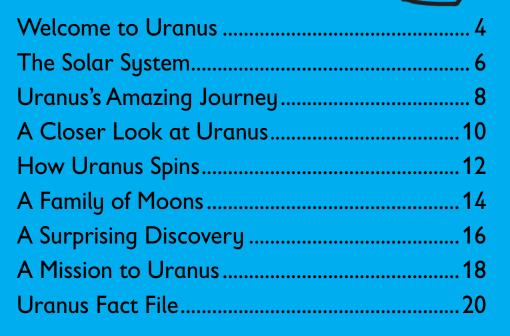
Library of Congress Control Number: 2013939987

ISBN 978-1-909673-17-5

Printed and published in the United States of America

For further information including rights and permissions requests, please contact our Customer Service Department at 877-337-8577.

Contents



Get Crafty: Zoom Into Space Game	22
Glossary	23
Index	24
Read More	24
Learn More Online	24

Words shown in **bold** in the text are explained in the glossary.





Imagine flying to a world that is hundreds of millions of miles from Earth.

As your spacecraft gets near, you see a beautiful, blue ball in the darkness of space.

You fly much closer and dive into swirling **gases** and clouds.

You will find nowhere solid to land, though, on this faraway world.

That's because the huge, blue ball is made only of icy gases and liquids.

Welcome to the **planet** Uranus!

No humans have ever visited Uranus, but a spacecraft has. In 1986, *Voyager 2* became the first and only space **probe** to fly past Uranus.

This picture was created on a computer. It shows how it might look to fly very close to Uranus.



Uranus is moving through space at over 15,000 miles per hour (24,000 km/h).

It is moving in a huge circle around the Sun.

Uranus is one of eight planets circling the Sun.

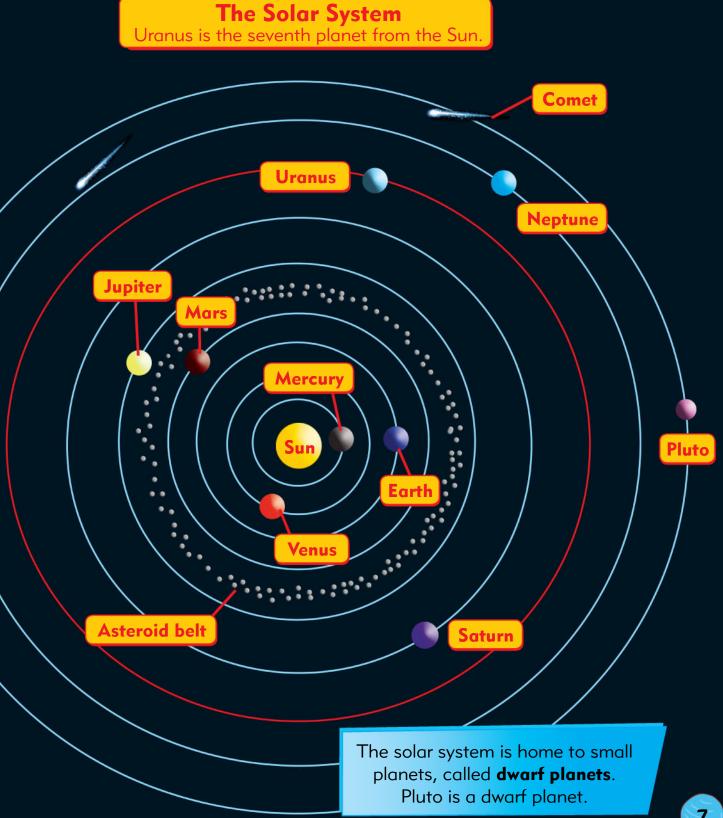
The planets are called Mercury, Venus, our home planet Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.

Icy **comets** and large rocks, called **asteroids**, are also moving around the Sun.

Together, the Sun, the planets, and other space objects are called the **solar system**.

Most of the asteroids in the solar system are in a ring called the asteroid belt.







Α

asteroids 6–7,9 atmosphere 10

С

canyons 15 clouds 4,10 comets 6–7

D

dwarf planets 7

Ε

Earth 4, 6–7, 8–9, 10–11, 13, 14–15, 18–19, 20

G

gases 4,10

H Herschel, William 20 M moons 14–15, 18, 21 P

planets 4, 6–7, 8, 10, 12, 20

R

rings 16–17, 18 rotating 12–13, 20

S

size of Uranus 10–11, 14, 20 solar system 6–7, 9, 10, 20 speed 6, 21 Sun, the 6–7, 8–9, 12, 20–21

T temperatures 21

V Voyager 2 4, 8, 16, 18–19

Wwinds 10Yyears 8, 21

Read More

Hughes, Catherine D.

First Big Book of Space (National Geographic Little Kids). Washington, D.C.: The National Geographic Society (2012). Rosa, Greg. Uranus: The Ice Planet (Our Solar System). New York: Gareth Stevens (2011).

Learn More Online

To learn more about Uranus, go to www.rubytuesdaybooks.com/uranus [Intentionally Left Blank]

The Sideways-Spinning Planet

100

Nearly 2 billion miles from Earth, an icy, blue world circles the Sun. A huge, beautiful ball of gases and liquids, this planet travels through space spinning on its side.

Welcome to Uranus!



COMETS, METEORS, AND ASTEROIDS Voyagers of the Solar System

> **EARTH** Our Home in the Solar System

JUPITER The Giant of the Solar System ¥

MARS The Dusty Planet

MERCURY The High-Speed Planet

THE MOON Our Neighbor in Space **NEPTUNE** The Stormiest Planet

PLUTO and the Dwarf Planets

der ¥

SATURN The Ringed Wonder

THE SUN The Star of Our Solar System

URANUS The Sideways-Spinning Planet

VENUS The Hot and Toxic Planet

