

Download N Go™
Go for learning. Go for fun. Go for adventure.

Rocking Robots



Amanda Bennett

Introduction

By Amanda Bennett

Whirling, flashing, beeping, chirping—so many fun sights and sounds that can come from the robots in movies! From R2D2 and C-3PO to Wall-E and Rosie from the Jetsons, we have seen so many robots in the entertainment industry that capture our imagination. Kids are fascinated with robots in all shapes and sizes, and this interest can easily open the door to all kinds of fun learning!

Today, there are many robots that are part of our world. There are robots that build cars, defuse bombs, load dishwashers, cook omelets, vacuum your home, and even play in an orchestra! However, most scientists and engineers believe that we have just begun to scratch the surface of all that we can do with robots, and that the best is yet to come. This generation of children will see all kinds of robotic innovations in their lifetime.

Choosing this topic for a Download N Go™ study was a fun choice, since I have always loved the idea of having robots around. From a simple, windup robot that walks across the floor to remote control toys that our children create, our family has always enjoyed learning about these creations. With this unit study/lapbook, your child will investigate all kinds of things about robots, including the history of robots—did you know that Leonardo da Vinci drew plans for one of the first known robots? Each day your child will explore and investigate, creating and adding more learning components to his *Rocking Robots* lapbook—building a wonderful reminder of all that he is learning, to be enjoyed for years to come.

With the Download N Go™ unit studies, you are about to begin a new kind of learning experience. Each study is one week in length, having five daily lessons with lapbook components for each day. The name, Download N Go™, comes from the concept that these studies are ready to use as soon as you have downloaded them. No preparation or waiting time or other expensive resources are required. A few inexpensive items are needed for the lapbook—a simple file folder, a glue stick, safety scissors, brass brads, and crayons or markers. That's it—simple, effective, and what a way to learn!

When studying robots, your children will learn some of the basics of robots: what their purposes are, what their main components are, and how they are used today. They will also be given opportunities to design their own robots and develop some ideas for new uses for robots! The “room-cleaning robot” idea should prove very popular!

So get ready for the adventure, and thanks for spending a week with us as we take off with *Rocking Robots*. While you are enjoying *Rocking Robots*, look ahead to *Terrific Tigers* and *Tremendous Trees*, two new titles in the Download N Go™ Series that continues to grow!

Notes to parents: *Remember that Internet site content can change overnight. Please check the sites you plan to use before your child visits them in the study.*

Some of the videos in this study are hosted by YouTube and include Google ads that cannot be completely avoided. These ads can be hidden by clicking on the X in the upper-right corner of the ad banner.



To conserve printer ink, please note that most printers have a variety of printing options (draft mode, economy mode, grayscale, black and white, etc.), which may reduce your ink usage. Refer to [this guide](#) for assistance in exploring your printer's options.



Daily Objectives

Day 1: What Is a Robot?

1. What is a robot?
2. Just exactly what can a robot do?
3. Investigate robots in space.
4. Robot of the Day: The Mars Rover.

Day 2: The History of Robots

1. Who was the designer of the first known robot?
2. Is there such a thing as a robotic animal?
3. Investigate some of the robots from history.
4. Robot of the Day: Lilliput.

Day 3: People and Places of Robots

1. Where is the Gulf of Mexico, and how are robots used there?
2. What is an ROV robot?
3. Learn about the robots that found the Titanic.
4. Robot of the Day: Jason.

Day 4: Science Secrets of Robots

1. What are the five main parts of a robot?
2. Learn how robotic joints work.
3. What are senses, and how does a robot use them?
4. Robot of the Day: Asimo.

Day 5: Goodies and Gadgets of Robots

1. Robots on the farm - really!
2. Investigating medical robots.
3. Learning about firefighting and weather forecasting robots.
4. Robot of the Day: CiD.

Day 1

What Is a Robot?

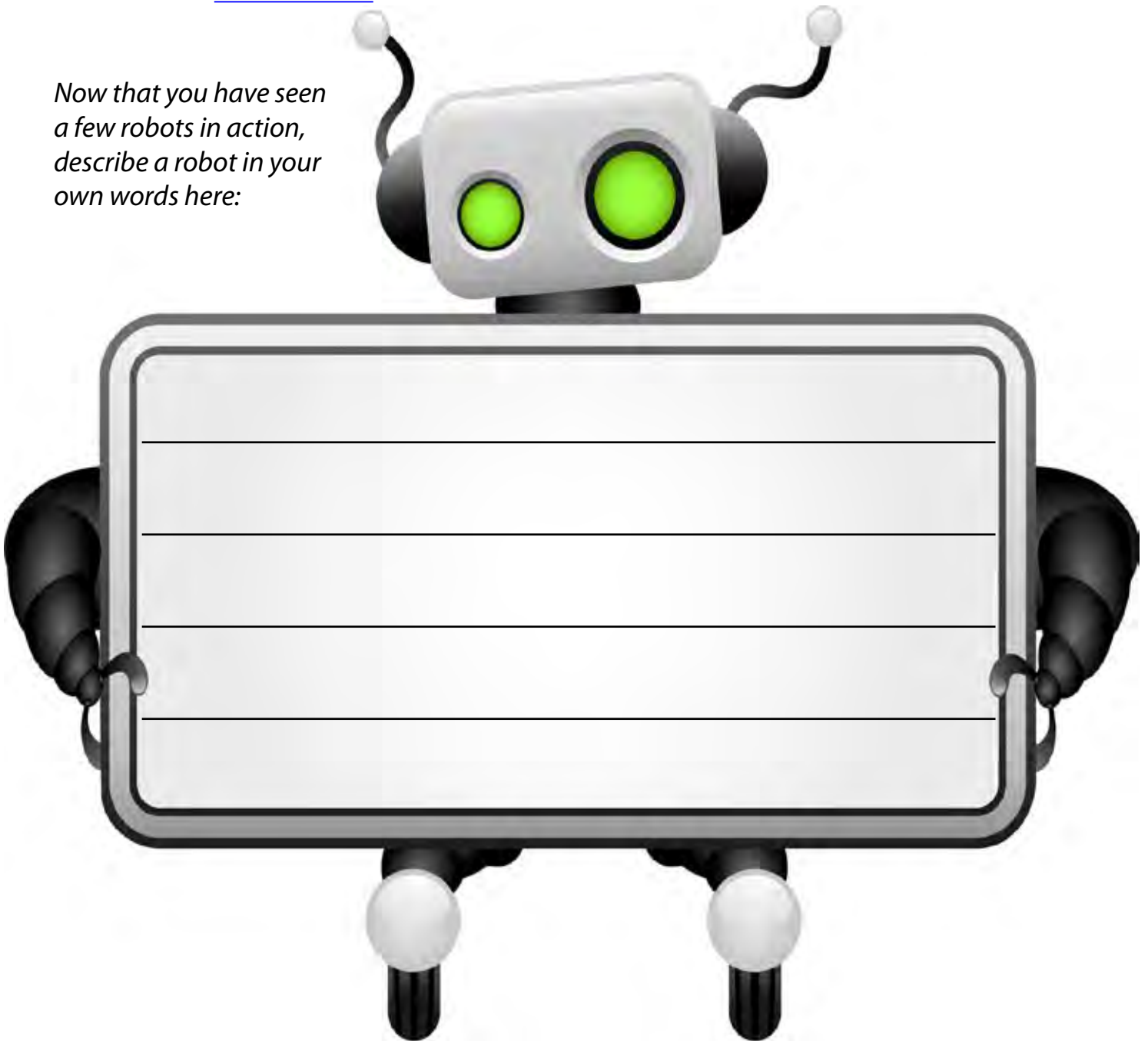
Let's take a look at a few robots on these videos as we begin today's adventure:

Video: [Violin-Playing Robot](#)

Video: [Simple Robot](#)

Video: [Robot Walker](#)

*Now that you have seen
a few robots in action,
describe a robot in your
own words here:*



Now, let's look up the definition of robot. *Read the definitions of a robot at the links below, and then write your own definition.*

[Robot](#)

[Robot](#)

[Definition of Robot](#)

What are two types of jobs that robots usually do? *Write your answer below.*

[Robot Facts](#)

[Robots – NASA](#)

They do _____ jobs

or _____ jobs.

Many times, robots are built to do jobs that must be done over and over again, like washing dishes. How would you like to have a robot in your house that does the dishes?

Video: [Robot That Can Load the Dishwasher](#)

