

AI WORLD AI IN CARS



TABLE OF CONTENTS

CHAPTER 1

What Is AI? 4

CHAPTER 2

The Smart Car..... 8

CHAPTER 3

Self-Driving Cars..... 14

ACTIVITIES & TOOLS

Try This! 22

Glossary..... 23

Index..... 24

To Learn More..... 24



CHAPTER 1

WHAT IS AI?

A driver is in a car. She doesn't touch the steering wheel. The car drives on its own.



The car has cameras and **sensors**. These notice things around it. The car slows down on its own. Why? The car ahead is too close. This is **artificial intelligence** (AI) at work. AI helps machines and computers do things humans use knowledge and skills to do.



Vehicles can use AI in many ways. Some AI controls a car for a little while. It **steers** the car to safety. If a person is in the road, AI can tell. It uses the brakes. This stops the car. Some vehicles use AI to drive all by themselves!

For Review Only



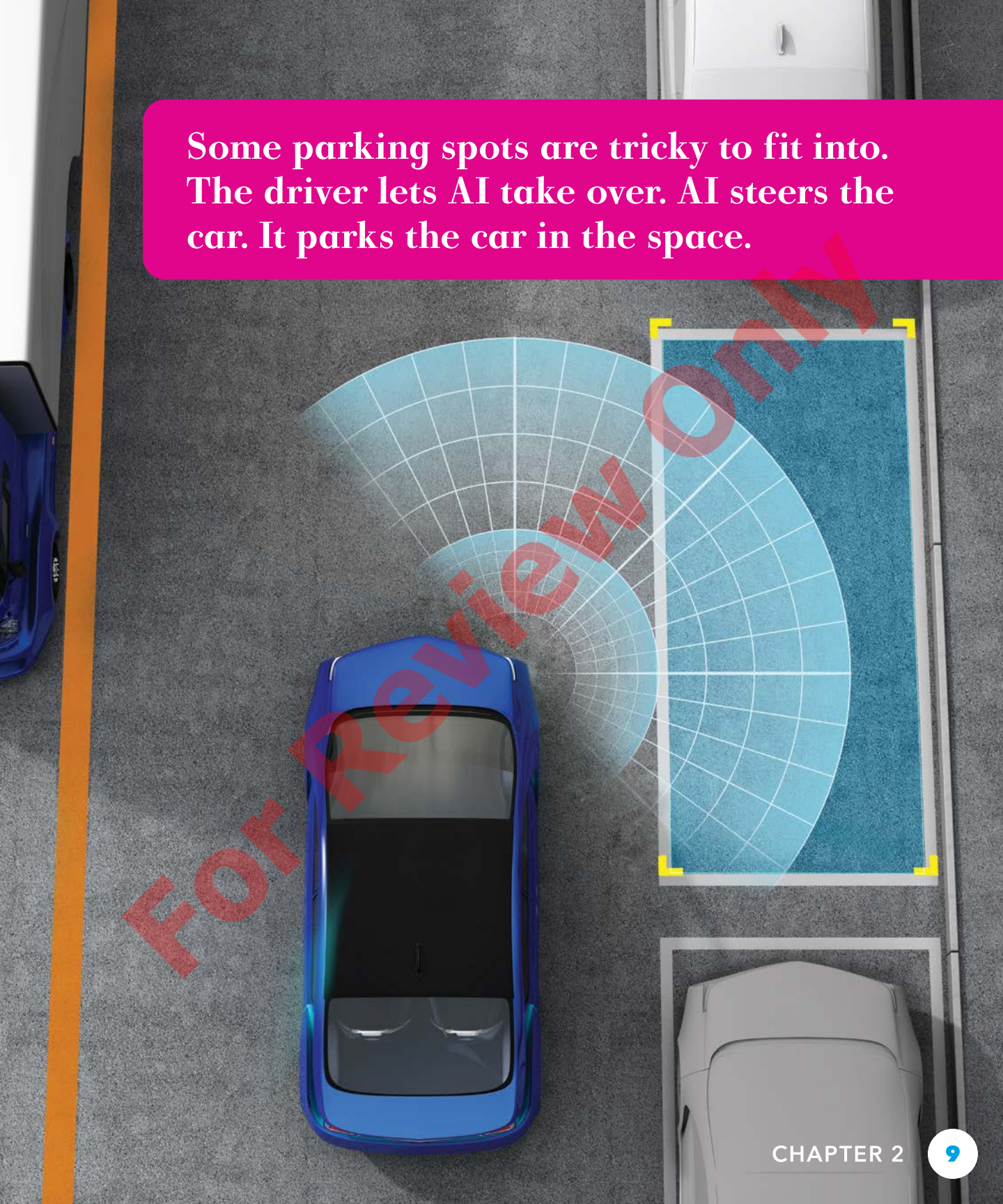
CHAPTER 2

THE SMART CAR

AI can avoid crashes. How? It sees road lines. It warns the driver if the car goes out of its lane.

lane

Some parking spots are tricky to fit into. The driver lets AI take over. AI steers the car. It parks the car in the space.



ACTIVITIES & TOOLS

TRY THIS!

CREATE YOUR OWN CAR AI

What else could AI do for cars? Come up with new ideas with this fun activity!

What You Need:

- paper and pencil or a device for taking notes
- a vehicle or a video of a vehicle driving

- 1 Go for a ride in a vehicle, or watch a video of someone in a car.
- 2 Make a list of what people do in the car. Does AI help? If so, how?
- 3 Pick one thing people do in a car that does not use AI. Think about how AI could make that easier or better.
- 4 Come up with new AI for driving or cars. How does it work? Does it need sensors or cameras? What decisions does it make? Write down your ideas. Share them with a friend or family member.

