



Are You Ready?





FAST READING

Classic English Junior Level 6 - Unit 10 Transportation

Lesson

6

How Do Bicycle Gears Change Speeds?



Lesson Structure

| | |
|----------|--------------------------------|
| 1 | Learning Objective |
| 2 | Warm-up |
| 3 | Reading Preparation—Vocabulary |
| 4 | Genre |
| 5 | Fast Reading |
| 6 | Wrap-up |

You are going to read an article called "How Do Bicycle Gears Change Speeds?". In the article you will learn:

**Genre**

Informational text

**Key Words**

speed, gear, cog, shifter, handlebar, pedal, spin, imagine

Warm-up

02:00

Riddle time.



I'm always two-tired, but I'm never too tired. What am I?



Let's Go!



Reading Preparation—Vocabulary

01:00

Learn and say.



speed *n*



I can make my bike move
at a super-fast **speed**!



gear *n*



Gears control the speeds of
a bike.

Ask a question
using a **key word**:

Reading Preparation—Vocabulary

01:00

Learn and say.

**cog** *n*

A **cog** is a wheel with tooth-like parts around its edge.

**shift•er** *n*

Shifters can move the gears of a bike.

Use a **key word** to make a sentence:

Reading Preparation—Vocabulary

01:00

Learn and say.



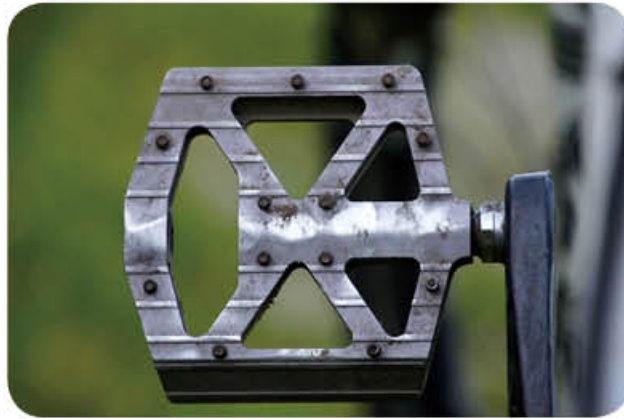
han•dle•bar *n*



The **handlebars** on my bike are red.



ped•al *n*



This is a **pedal** on a bike.

Ask a question
using a **key word**:

Reading Preparation—Vocabulary

01:00

Learn and say.

**spin** ✓

The top is **spinning**.

**imag•ine** ✓

The man is **imagining** a better life.

Explain a **key word** using your own words:



Let's
Read!



Index

shift down, 10
shifter, 9
shift up, 10

A feature of an informational text: index

The index in a book is a list of the topics, names and places mentioned in it, together with the page numbers where they can be found.



You can find the index at the back of a book.

Table of Contents

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Do you know how many new bicycles roll into the world every year? About 100 million!

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How many speeds do bikes have?

How do bicycle gears change **speeds**? Generally, most bikes have one speed, while others may have 1, 3, 18, 21, 24, or as many as 27 speeds.



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What are gears?

You can consider **gears** as the same thing as speeds — a bike with 3 gears is a 3-speed bike.



Lower numbers are the low gears and higher numbers are the high gears. The lower the number, the easier the gear is.



That's pretty easy to understand, right?





What are cogs?

Bikes with more than one speed have seven to eleven **cogs** on the back wheel.



Cogs are made of metal and have teeth that hold a bike's chain in place.



Can you circle the cogs in the pictures?



What does shifting mean?

Shifting means going from one gear to another. A rider shifts gears by changing the **shifter** on the **handlebar**. That moves the chain from one cog



to another. That makes pedaling easier or harder.

Shifting down means going to a lower gear.

Shifting up means going to a higher gear.



How do you shift gears?



How do we use gears?

If you're going uphill and it's too hard for you, shift down.

If your legs are **spinning** the **pedals** way too fast, shift up.

Imagine you are riding along a beautiful flat path on a three-speed bike in second gear.



What should you do if you're going downhill?

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Then you come to a high hill. Halfway up, you are having a difficult time pedaling. What should you do now? Shift down into first gear, of course. Pedaling suddenly becomes much easier!



shift down, 10
shifter, 9
shift up, 10

Index

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Today we learned about genre and the following key words.

Genre

A feature of an informational text:

- Index

Key Words

speed, gear, cog, shifter,
handlebar, pedal, spin, imagine





See You Soon!

51TALK

