



# Engineering Design Challenges

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 4

## Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: Edison invent the lightbulb after just one try.

Rewrite: \_\_\_\_\_

2. Fix the sentence: The Wright Brothers builded the first airplane in 1903.

Rewrite: \_\_\_\_\_

3. Fix the sentence: Bell inventing the telephone to help people talk far away.

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

- Alexander Graham \_\_\_\_\_ invented the telephone in 1876.
- Thomas \_\_\_\_\_ improved the lightbulb after many failed tests.
- The Wright \_\_\_\_\_ built and flew the first powered airplane.
- Grace \_\_\_\_\_ was a computer engineer who helped invent modern coding.

## Part C: Short Answer

Answer each question in one or two complete sentences.

1. Name one invention by Thomas Edison and explain why it helped people.

\_\_\_\_\_  
\_\_\_\_\_

2. Why are engineers important to our daily lives?

\_\_\_\_\_  
\_\_\_\_\_

**Part A: Fix the Sentence**

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Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: *Edison invent the lightbulb after just one try.*

Rewrite: **Edison invented the lightbulb after thousands of tries.**

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2. Fix the sentence: *The Wright Brothers builded the first airplane in 1903.*

Rewrite: **The Wright Brothers built the first airplane in 1903.**

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3. Fix the sentence: *Bell inventing the telephone to help people talk far away.*

Rewrite: **Bell invented the telephone to help people talk far away.**

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**Part B: Fill in the Blank**

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Write the missing word or number on each line.

- Alexander Graham **Bell** invented the telephone in 1876.
- Thomas **Edison** improved the lightbulb after many failed tests.
- The Wright **Brothers** built and flew the first powered airplane.
- Grace **Hopper** was a computer engineer who helped invent modern coding.

**Part C: Short Answer**

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Answer each question in one or two complete sentences.

- Name one invention by Thomas Edison and explain why it helped people.

*Edison improved the lightbulb so people could safely have bright light at night without using dangerous candles or oil lamps.*

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- Why are engineers important to our daily lives?

*Engineers design tools, buildings, and machines like phones, bridges, and cars that solve problems and make life easier and safer for everyone.*

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