



# We Invented It!

by [name]







**1** *As you and your team work on your invention, keep the Engineering Design Process in mind. Following this process will help ensure a successful invention.*

## **1 Engineering Design Process**

- 1. Identify a need.**
- 2. Research the problem.**
- 3. Design a solution.**
- 4. Build a prototype.**
- 5. Test and evaluate a prototype.**
- 6. Troubleshoot and redesign. (Circle back through 3-6 until flaws are worked out.)**
- 7. Communicate the solution.**

**Remember safety!**

**1** This is a sample invention that your team can work through so you can then create your own invention. Or use this outline and change it to create your own invention.

Make a drawing or take a photo that illustrates The Challenge. Upload picture.

## 1 SAMPLE INVENTION

1 DATE:

1 Engineering Team:

The Challenge: Invent a better sneaker

Some problems sneakers help solve are...

Problems with sneakers we use today include...

Our "super-sneaker" will have some great improvements. It will...

The most important thing we will consider when inventing the super-sneaker is...

1

**1** *Research your invention.  
Interview those who  
might be able to help you  
create a better invention.*

## **1 The Research**

**We interviewed sneaker users.**

**Overall, people wanted these 5 important features:**

- 1.
- 2.
- 3.
- 4.
- 5.

**We interviewed experts.**

**(salespeople, doctors, coaches, trainers)**

**Overall, people wanted these 5 important features:**

- 1.
- 2.
- 3.
- 4.
- 5.

**We researched online.**

**Overall, people seem to want these 5 important features:**

- 1.
- 2.
- 3.
- 4.
- 5.

**1** *Decide what features your invention should have.*

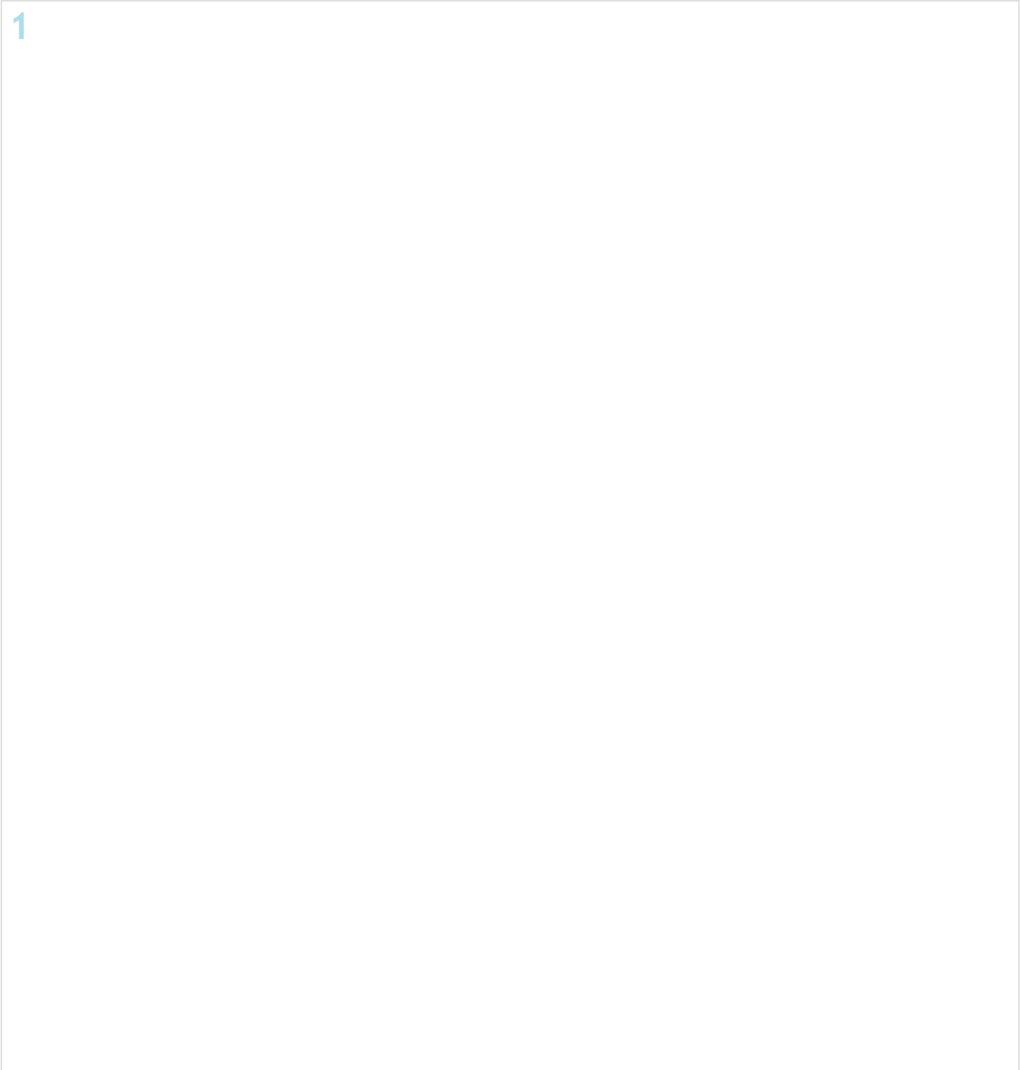
*Make sketches of your invention. Upload picture.*

## **1 The Design Plan**

**We decided these 5 features were the most important criteria for our design:**

1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

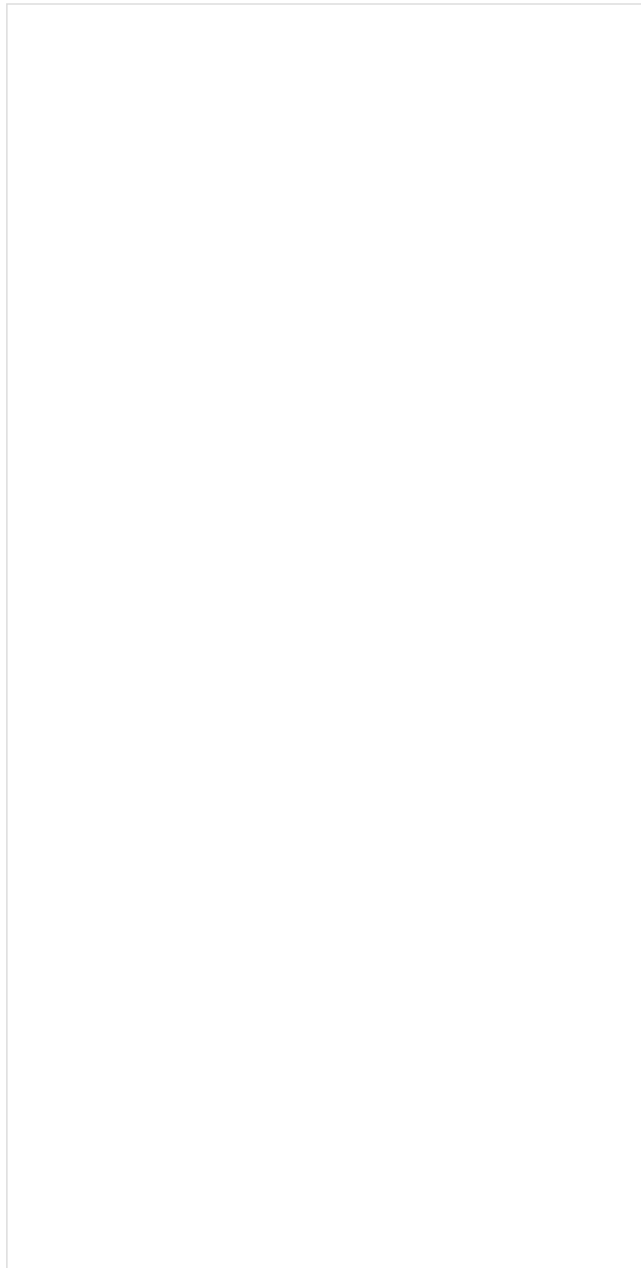
**1**



**1** Make a diagram with parts and features labeled. Click to upload.

*Describe the materials and features in your invention.*

**1**



**2** Describe the materials and features. What makes your invention a success?

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**1** Make a plan to test your invention. Then test!

Illustrate the steps in your plan. Upload picture.

## 1 Test Ideas

Make a plan for testing the sneaker's success.

Describe the steps in your plan.

1.

2.

3.

1

**1** Click to upload a photo of your poster or brochure.

## **1** Communicate

**Make a poster or brochure to communicate the successful features of your invention!**

**1**

1

*Reflect on your project.  
What didn't you expect?  
What else happened or  
needs to happen to  
create a successful  
invention?*

1 Some things that challenged us were...

One thing that we didn't expect was...

To make our invention work really well, it would need...

One thing that puzzles us now about sneaker design is...

## 1 OUR INVENTION

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1 DATE:

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1 Engineering Team:

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2 The Challenge: Invent a

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Some problems this will help solve are...

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Our invention will have some great improvements. It will...

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The most important thing we will consider is...

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## 1 The Research

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Overall, people wanted these

5 important features:

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We researched online.

Overall, people seem to want these 5 important features:

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5.

**1** Make sketches of your invention. Upload.

## 1 The Design Plan

We decided these 5 features were the most important criteria for our design:

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**1** Make a diagram with parts and features labeled. Upload.

**1**

**2** Describe the materials and features. What makes your invention a success?

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**1** Illustrate the steps in your plan. Click to upload.

## 1 Test Ideas

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Describe the steps in your plan.

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## 1 Communicate

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**Make a poster or brochure to communicate the successful features of your invention!**

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**1**



Add pages if needed.  
Go to the Menu bar, Insert,  
and choose either  
Duplicate Slide (to copy  
an existing slide) or New  
Slide (to add a new  
page).

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