Homework Week 3 Tuesday

Reading Homework

Burrs and Velcro

Adapated from: Readworks.org

Have you ever seen Velcro before? Chances are you have! It can be found on a range of different things, from clothing to NASA space equipment. Velcro is often used in place of a zipper. Just like zippers, Velcro was first designed to fasten clothing together.



Photo Credit: Zephyris, CC BY-SA 3.0

Photograph of a bur

How was Velcro first invented? Velcro was inspired by burrs, which are seeds covered in hooks. When George de Mestral, the inventor of Velcro, was hiking with his dog, he noticed that his dog was covered in the spiky seeds. The seeds had attached to tiny loops in the dog's fur. De Mestral studied the burr and the fur under a microscope. He soon realized he could adapt this hook-loop design into an adhesive tool. Years of testing led to the invention of Velcro. Velcro is made up of two strips of fabric. One strip is made up of hooks, and the other is made of loops.

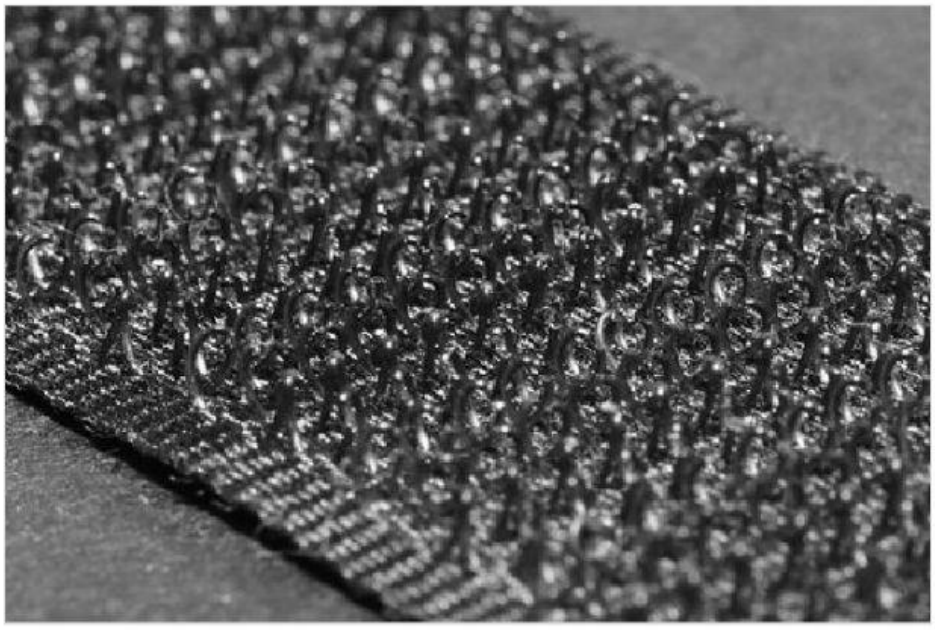
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Photo Credit: liz west, CC BY 2.0

Photograph of burrs

From its invention in 1941 to present day, Velcro has turned into a material with many different and varied uses. Velcro has many uses in homes, including holding picture frames up and keeping rugs in place. Velcro is also used in hospitals to keep patients fastened during surgery.



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Photo Credit: Alexander Klink, CC BY 3.0

Close-up photograph of velcro hooks

1. What was Velcro first designed to do?

A. to keep rugs in place
B. to fasten clothing together
C. to help dogs go hiking
D. to hold up picture frames

2. What caused George de Mestral to create an adhesive tool with a hook-loop design?

A. He noticed that his dog's fur was covered in spiky burrs on a hike.
B. He noticed that tree sap was incredibly hard to remove from surfaces.
C. He noticed that gecko's feet have tiny hairs that make them sticky.
D. He noticed that grass would not stick to his dog's fur because it was straight.

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Math Homework:

1. **Complete the place value chart for the following number - 2,031,764.**

0	
1	
2	
3	
4	
6	
7	

ones

tens

hundred thousands

millions

ten thousands

hundreds

thousands

2. **What digit is in the millions place of this number?**

14,328,690

a. 3	b. 1
c. 2	d. 4

3. **What is the value of 7 in the number 81,379,204?**

a. 70,000	b. 700,000
c. 7,000,000	d. 70,000,000

4. **How do you write 4,182,036 in word form?**

a. Four million and one hundred eighty-two thousand, zero thirty-six	b. Four million, one eight-two thousand, and thirty-six
c. Four millions, one hundred eighty-two, thirty-six	d. Four million, one hundred eighty-two thousand, thirty-six

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Virginia Studies Homework:

Match the region to it's description.

A. Appalachian Plateau

B. Valley and Ridge

C. Blue Ridge Mountains

D. Piedmont

E. Coastal Plain (Tidewater)

1. _____ valleys separated by ridges; part of the Appalachian mountain system

2._____ flat land; included the Eastern Shore

3._____ old, rounded mountains; source of many rivers

4._____ flat, elevated land; only a small part of this region is located in Virginia

5._____ rolling hills; it's name means "land at the foot of mountain"

Science Homework:

Answer the following questions, please be sure to use capitalization and ending punctuation correctly.

a) What do you like about Science?

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