Scenario: You, a 17-year-old student, tend to be clumsy at times and happen to scratch your face while exercising. After the bleeding is over you apply topical antibiotic and a band-aid. The problem? The homecoming dance is only six weeks away and you are worried about the scratch turning into a scar. The solution? Try to find a medicine that will reduce the chance of a scar forming. But, you don't trust your beautiful face to just any scar-reducing cream! You want to understand how scars form and what the medicine will do to reduce it, before you trust putting it on your face.

Webquest Purpose: To help understand how scars form and how scar-reducing medicine works, you will: research the different types of tissues in your body, determine which type of tissue causes scars and how, and determine how scar-reducing creams work. You will then make your determination if scar-reducing medicine is a viable choice to put on your scratch.

There are five steps to your task:

1. Research the four types of tissues in your body. They are: epithelial, connective, muscular, and nervous.

2. Determine which type of tissue causes scars and how scars form.

3. Research scar-reducing creams including how they work and what they are made from.

4. Create a project to share what you have learned and answer whether you will use scar-reducing cream on your scratch, using evidence you have gathered.

5. Briefly analyze the quote found on the [home](https://sites.google.com/site/brookemaine/home) page of the webquest.

**Step 1:** To research about the types of tissue, click on the links below and read the information. Fill out the provided notes as you go. You may also choose to watch the videos to help in your learning.

[National Cancer Institute: SEER Training Modules](http://training.seer.cancer.gov/anatomy/cells_tissues_membranes/tissues/)

[Mc-Graw-Hill Company: Tissue of the Human Body](http://www.mhhe.com/biosci/ap/histology_mh/start_histology.html)

[Georgia Highlands College: Classification of Tissues](http://www.highlands.edu/academics/divisions/scipe/biology/labs/rome/histology.pdf)

**If you choose to watch the videos, please watch them in order to benefit your understanding.**

[Tissues of the Human Body: What is Histology?](http://www.youtube.com/watch?v=AQ6IK-nYyOU)  (Video 1)

[Tissues of the Human Body: What is Connective Tissue?](http://www.youtube.com/watch?v=540Uzh4o2Yw)  (Video 2)

[Tissues of the Human Body: What is Epithelial Tissue?](http://www.youtube.com/watch?v=0w-FAZc1DCo)  (Video 3)

[Tissues of the Human Body: What is Neural Tissue?](http://www.youtube.com/watch?v=qh4dpXFM8P0)  (Video 4)

[Tissues of the Human Body: What is Physiology?](http://www.youtube.com/watch?v=KIujc_FfOVs&feature=relmfu) (Video 5- this video explains muscular tissue)

**Step 2:** Research what type of tissue causes scars and how scars form- specifically looking for scars that form on skin, similar to the scratch you received. Click on the links below and fill out the appropriate section of the provided notes.   
          
                    [NBC News: Why Are Scars Permanent?](http://www.nbcnews.com/id/3076698/t/why-are-scars-permanent/#.VCWHc-f9pCE)

                    [wiseGeek: Scar Tissue](http://www.wisegeek.com/what-is-scar-tissue.htm)

[How Scars Form](http://www.todayifoundout.com/index.php/2012/01/how-scars-form/)

[The Biology of Scar Formation](http://ptjournal.apta.org/content/69/12/1014.long)

**Step 3:** Research Mederma ®, a common scar-reducing medicine. Mederma ® is a very well-known cream that is said to reduce the visibility and appearance of scars and is stated as the #1 brand recommended by doctors. If you trust any medicine to put on your beautiful face, it might be Mederma ® but you want to make sure it is safe and that you understand how it works, before you try it. Click on the links below and fill out the appropriate section of the provided notes.   
  
                    [Mederma ®: Advanced Scar Gel FAQ](http://www.mederma.com/products/gel)  
  
                    [eHow: How Does Mederma ® Work?](http://www.ehow.com/how-does_5230185_mederma-work_.html)   
              
                    [Livestrong: How Does Mederma ® Work On The Skin?](http://www.livestrong.com/article/68733-mederma-work-skin/)   
  
  
**Step 4:** Create a PSA (public service announcement) explaining to the public about the four types of tissues and scars. Explain why Mederma is a trusted medicine for scar reduction and how it works. Details: The PSA can be *either* a newspaper article *or* a brochure. For both options: write the PSA as if your project would be printed for a real audience to read- keep that in mind as you write it. Both options can be either computer-generated or hand-written, as long as the handwriting is neat and legible! You can find templates for either option in Microsoft Word if you would like to use one. Make sure to include all the information.