Name: Date:

Section: Subject: Science

**The Skin Lab**

A.) **Directions:** Answer the following questions using full sentences.

1.) What is the largest organ?

2.) What is another name for your skin (system)?

3.) Break down the vocabulary:

- Derma=

- What is Dermatology?

- What is Dermatitis?

- Epi=

- Vascular=

4.) What are the functions of the skin (you should have at least THREE)?

5.) How do you think UV radiation will affect our skin? Be specific. (should be 3-4 sentences.)

6.) We are going to calculate the surface area of the skin to see how big our skin really is? Before we start, estimate how big your skin is. (ex. 100 in2)

7.) What is the formula to calculate surface area?

8.) After measuring out the newspaper, what is the actual area of the skin (of course it will vary depending on the person)?

9.) How does your estimation compare to the actual area?

10.) To get an idea of the force of air pressure on the skin, multiply the surface area you calculated by the pressure exerted on it:

*area x pressure = force*

*area x 14.7 pounds/in2= force*

11.) Name at least TWO skin disorders that you know of and explain how it affects our body.

B.) **Directions:** Color the different parts of the Integumentary System (skin) diagram according to the colors and numbers given (on next page).