

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



## **UV Detectives**

### **WHICH MATERIAL PROTECTS THE BEST?**

#### ***Problem***

**Which material blocks the most ultraviolet light: cloth, roofing shingle, UV protective lens, non-UV protective lens, SPF 4 sunscreen or SPF 45 sunblock?**

#### ***Research***

Answer the following True or False questions:

True/False    Ultraviolet light has a shorter wavelength than visible light.

True/False    Ultraviolet light and visible light are both forms of radiation.

True/False    Since I can't see ultraviolet light, it can't hurt me.

True/False    Ultraviolet light can easily pass through any material.

True/False    Ultraviolet radiation can cause sunburns.

#### ***Identification of Variables***

Identify the **Independent Variable**, **Dependent Variable**, **Constants** and **Control** of this experiment:

<b>Independent Variable</b>	
<b>Dependent Variable</b>	
<b>Constants</b>	
<b>Control</b>	

#### ***Hypothesis***

If cloth, roofing shingle, a UV protective lens, a non-UV protective lens, SPF 4 sunscreen and SPF 45 sunblock are exposed to ultraviolet light, then the \_\_\_\_\_ will block the most ultraviolet light.

*(cloth / roofing shingle / UV protective lens  
non-UV protective lens / SPF 4 sunscreen / SPF 45 sunblock)*

