

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:

Independent Variable	
Dependent Variable	
Constants	
Control	

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)*

