

Living on the Moon



If we want to live on the Moon, or on other planets, we need to protect our astronauts from radiation – including ultraviolet (UV) radiation. This affects us here on Earth – suntan lotion protects us from getting burned! – but there’s a lot more on the Moon. In space, astronauts wear detectors called dosimeters to monitor how much radiation there is. We’re going to make our own UV detectors.

Draw a diagram of your UV detector in the box.
Remember to label your diagram!

My UV detector is called

Now we need to test our detectors. Predict what will happen when you put your detector in the dark, in the shade, and in bright light, and record your predictions in the table. Then do the experiment and record your results.

Light level	Prediction: What do you think will happen?	Observation: What did happen?
Dark		
Shade		
Bright		



Create your first lunar habitat. What materials have you used? Write a description, and remember to say why you chose those materials!

What happened to your UV detector when the UV torch was shone onto the roof of your lunar habitat? Was it protected?

Create your first second lunar habitat. What materials have you used? Write a description, and remember to say why you chose those materials!

What happened to your UV detector when the UV torch was shone onto the roof of your lunar habitat? Was it protected?

What are your conclusions? Which material worked better to protect your UV detector?
