

Name:

Date:

Class:

Dana's Sunscreen Problem **Answer Key**

Scenario: Dana watched a social media video showing how to make homemade sunscreen using only 2 grams of coconut oil and 2 grams of aloe vera. Excited to try it out, she applied the mixture before going for a run on a day when the UV index was 10 (very high). After 45 minutes, she discovered she had severe sunburn on her face.

Question: Dana's homemade sunscreen did not work. What essential properties were missing in her sunscreen that caused her to burn? Select the correct answer below:

- A. She forgot the emulsifier, an essential component for UV protection.
- B. She forgot the UV filter, an essential component for UV protection.**
- C. Because coconut oil is naturally an SPF of 4, she should have added 2 more grams to get more UV protection.
- D. The aloe is a cooling lotion for the skin; she should have applied more aloe in advance.

Explanation: Although coconut oil and aloe vera can be mixed together, they do not contain an approved UV-filtering active ingredient. Without a UV filter, the mixture cannot provide reliable protection from harmful UV radiation.

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