



Fabric characteristics and UVR protection—A text analysis

Preamble

One way to help protect the skin from the sun's harmful rays is to choose clothing with fabrics that are sun protective. The analytical activity below provides an opportunity to explore the influence of fabric characteristics on UVR protection.

Part A: Text analysis

Read Fact file H: [At a glance—Fabric characteristics and UVR protection](#) and then answer the questions that follow.

Level 1 statements Does the text say this?	Yes/No	Which words from the text support your answer? Be prepared to show where in the text you found the answers.
1 Tightly woven fabrics are better than loosely woven fabrics for sun protection. [See page 2]		
2 Weave and colour are major factors that affect how much UVR passes through fabric. [See page 2]		
3 White and pale-coloured fabrics are better for sun protection than black and navy fabrics. [See page 3]		
4 A cotton T-shirt that has shrunk after washing has reduced sun protection compared to before it was washed. [See page 3]		
5 Fabrics with high UPF ratings are better for sun protection than those with a lower UPF. [See page 4]		



Fabric characteristics and UVR protection—A text analysis

STUDENT RESPONSE 15

9

10

Level 2 Interpretive statements Does the text give you this idea?	Yes/No	Which words and phrases support your answer? Prepare reasons for the answer. Use the text to help you.
6 A loosely woven shawl or sarong does not provide very much sun protection. [See page 2]		
7 The underside of a hat brim should be in a dark colour. [See page 3]		
8 All clothing to be worn in the sun should have a UPF of at least 15. [See page 4]		

Level 3 Applied statements Do you agree with these statements?	Yes/No	Justify your response. Be prepared to share your reasons.
9 All summer outdoor wear should be labelled with the fabric's UPF.		
10 All summer outdoor clothing for babies and toddlers should be made with fabric that has a UPF of at least 15.		
11 White and light-coloured hats should be banned for babies and toddlers.		

Part B: Analytical response

Based on the information in Fact file H: [At a glance—Fabric characteristics and UVR protection](#) and your text analysis, compose a 250–400-word response to the following topic:

Explain and evaluate the influence of fibre, weave and colour of fabric when designing sun-protective clothing.

Use Student response 17: [Fabric characteristics and UVR protection—An analytical response](#) to help you structure your response.