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# Antarctica Video Questions

## **Wednesday 5 November**

#### 1. Sea Stars and Urchins

Leave the main building at Scott Base and walk across the snow to the wet lab to see what Kate Sparks has been working on.

- 1. Where does the Antarctic cushion star live?
- 2. Where do these Antarctic cushion stars fit into the food web?
- 3. What do these urchins use their spines for?

Next step learning: What do you think would happen to the Antarctic marine food web if there were less cushion stars?

### 2. Science in the Wet Lab

Take a closer look at one of Kate's experiments on Antarctic sea stars and see how she is monitoring the response of these sea stars to warmer water.

- 1. What is Kate monitoring?
- 2. What is the temperature of the water that Kate is using in the experiment at the moment?
- 3. How many times does Kate want to repeat this experiment?

Next step learning: How is respiration rate related to metabolism and what do you think will happen to the Antarctic cushion stars in warmer water?

### 3. The fair test – science in action

Find out more about how science is done in a certain way to make sure that it is fair test and the results are accurate

- 1. What is a control?
- 2. Why has Kate collected Antarctic cushion stars from more than one place?
- 3. How many sea stars is Kate sending back to New Zealand?

Next step learning: Design your own experiment to test the ability for an Antarctic animal to survive warmer oceans. Include a control and step by step method that could be repeated by someone else.