

A serene sunset scene over a beach. The sun is low on the horizon, casting a bright, shimmering path of light across the water. The sky is a mix of soft orange and pale yellow, while the mountains in the background are silhouetted against the light. The overall mood is peaceful and contemplative.

Sunscreen and Nanotechnology

Incorporating Nanoscience in Cell Biology
through Inquiry Based Learning

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Essential Questions

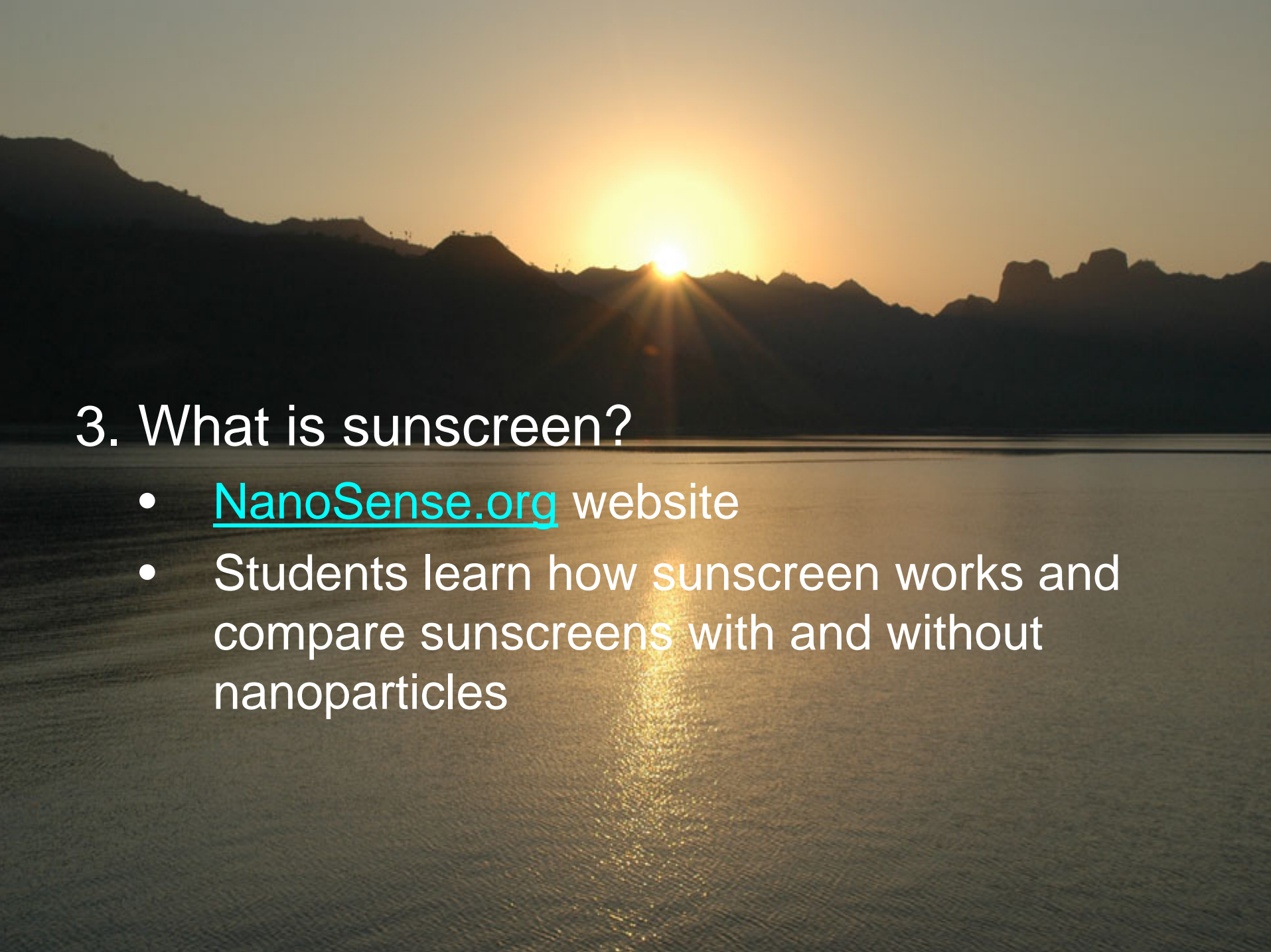
1. A strange mole is discovered, what is it?
 - Given background information, students should discover that mole is possibly cancerous.



A scenic photograph of a sunset over a body of water. The sun is low on the horizon, creating a bright glow and a reflection on the water. The sky is a mix of orange and yellow, and the mountains in the background are silhouetted against the light.

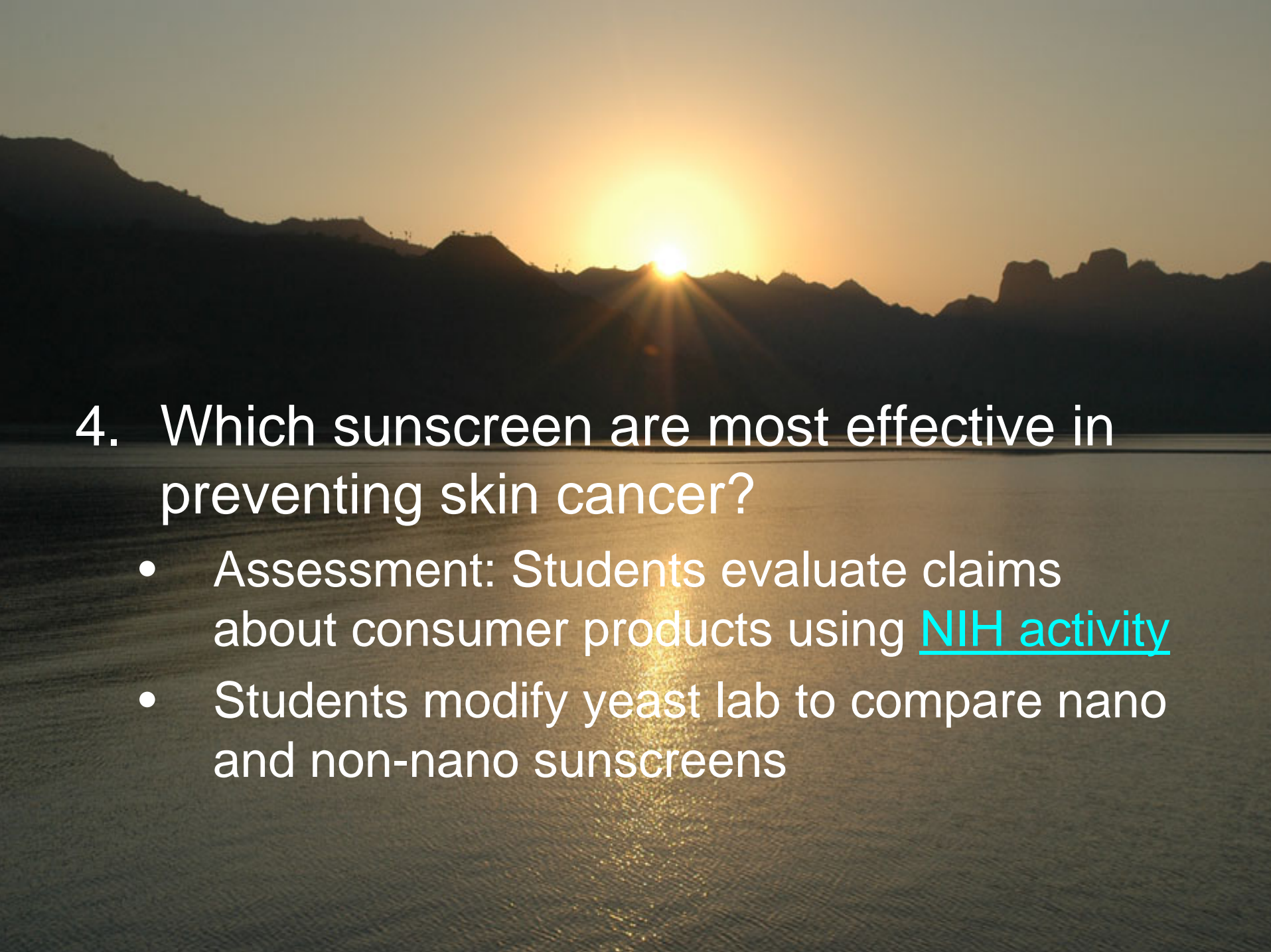
2. What causes skin cancer?

- Cancer is caused by mutations in the DNA
- [NIH website](#) and activities on cancer
- What does sun do to yeast growth lab exploration.

A scenic photograph of a sunset over a body of water. The sun is low on the horizon, partially obscured by dark, silhouetted mountains. The sky is a gradient of warm colors from yellow to orange. The sun's light reflects on the water's surface, creating a shimmering path. The overall mood is peaceful and serene.

3. What is sunscreen?

- NanoSense.org website
- Students learn how sunscreen works and compare sunscreens with and without nanoparticles

A sunset scene with the sun low on the horizon, casting a golden glow over a range of dark mountains and a body of water. The sun's rays are visible, and its reflection creates a shimmering path on the water's surface.

4. Which sunscreen are most effective in preventing skin cancer?

- Assessment: Students evaluate claims about consumer products using [NIH activity](#)
- Students modify yeast lab to compare nano and non-nano sunscreens