

Cell Division & Skin Cancer Investigation

Lesson Title: Skin Cancer 1: Exposing Healthy Skin to the Sun

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Use the resources listed on the Skin Cancer Investigation student E-Sheet to answer the questions on this sheet.

Skin Cancer Investigation E-Sheet

<http://sciencenetlinks.com/Esheet.php?DocID=238>

Biological Basis of Heredity: Cell Reproduction

What is the most common form of cell replication?

What are somatic cells?

What is mitosis?

How many phases of mitosis do somatic cells go through and in what amount of time?

Introduction and Part 1: Skin Form and Function

What is the largest organ in humans?

What is the primary function of our skin?

How else does the skin act to protect you?

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The skin has three layers. Do you know what they are?

Do you think skin color provides added protection from environmental elements, like the sun?

SCI: Skin Cancer Investigation

Healthy Skin

What are the types of cells in the epidermis and how are they related to each other?

What is melanin and what is its role in the epidermis?

What is keratin and what does it do?

What are the two primary features of the dermis?

Describe the subcutaneous tissue.

Effects of the Sun on the Skin

Name the main benefits of sunlight.

What are some of the benefits of the sun's UV rays?

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How are these rays harmful?

Causes

How do UV rays affect normal cell division?

Why do some people have a greater chance of developing skin cancer compared to others?

Tumors

What are the main differences between benign and malignant tumors?

Common Risk Factors

What are the five most common modifiable risk factors of skin cancer?

How can where you live increase your chances of developing skin cancer?

How does genetics play a role?

What is actinic keratosis?