



Ask students to look at the pictures and come up with a definition for the word "SunWise." You may chart the responses and keep them posted for later reference. Tell students that they are going to receive more information about SunWise and that you will revisit the definitions later.



Ask the question and give students time to think about an answer. You might have them talk to a neighbor to generate ideas. After sufficient wait time move to the next slide. Ask students to share their ideas about the sun.



Give students ample time to generate ideas.

Listen to all student responses and then let the students know that you have pictures of a few things that show what we know about what our sun can do. Continue to mouse click until all four examples are on the screen. Ask students to look at the four pictures that you have selected and to put them into two categories. After students have shared their ideas for categories, mouse click again to show the text "Good" and "Bad" on the slide and ask students why you have selected these categories. Fill in any background information for students to help them understand why sunburns and wrinkles are not good for our skin (for background information go to the SunWise Web site: http://www2.epa.gov/sunwise/health-effects-uv-radiation).

Use the next two slides to expand on the list in each category. Have students participate by filling in the blanks to finish the words.

Hopefully some of the responses were already generated by the students.







Summarize information about the sun...

For additional information go to the SunWise Web site (www.epa.gov/sunwise) or the SunWise kid pages (www.epa.gov/sunwise/kids.html)



Point out that the sun also produces ultraviolet (UV) radiation that can be potentially harmful to us. Stress (as much as possible for this age group) that it is UV radiation, not the light or warmth that causes the harmful effects.



(General UV information: http://www2.epa.gov/sunwise/uv-index)

Give students example of each variable that fits with their experiences such as:

Time of day: early morning vs. late at night (Note: Remember the shadow rule: Watch Your Shadow. No Shadow, Seek Shade!)

Time of year: summer vs. winter

Location: black top vs. under the shade of a tree

Altitude: in the mountains

Weather: cloudy vs. clear

Reflections: snow and water

Ozone layer: is thinning and offering less protection against harmful UV rays

(Until recently, chlorofluorocarbons (CFCs) were used widely in industry and elsewhere as refrigerants, insulating foams, and solvents. When CFCs break down in the stratosphere, they release chlorine, which attacks ozone. http://www2.epa.gov/sunwise/ozone-layer-depletion)

Information on the UV Index and why it varies:

http://www.cpc.ncep.noaa.gov/products/stratosphere/uv_index/uv_infor mation.shtml



The UV Index is a prediction (based on a mathematical equation available at http://www2.epa.gov/sunwise/calculating-uv-index) of the UV level at noon. It can be used as a tool (much like a thermometer is a tool for temperature) for reminding people how to protect themselves from overexposure to UV radiation. The higher the UV Index level, the greater the possibility of damage to the skin and eyes in less time. Ask students to think back to the pictures of people being SunWise that you used when asking them to form a definition. What were some of the ways that people were taking special care to protect themselves from the UV radiation levels? Students should remember the use of sunglasses, widebrimmed hats and clothing.



Again ask students to think about the definition of SunWise that they formed at the start of the lesson. Tell them that you will now go over some specific ways to become SunWise.

http://www2.epa.gov/sunwise/action-steps-sun-safety



As you read and review each Action Step with the students ask them to think of the action steps that are part of their routine.



















Ask students if they feel that they are SunWise and, if not, what more could they do to become SunWise. Have students brainstorm on how this might happen. Use the next four true/false questions as a formative evaluation tool to check for understanding.





True or False?



You only need to wear sunscreen when you are at the beach.





Check for understanding by asking students what other action steps they could do along with applying sunscreen.





True or False?



My skin doesn't get sunburned, so I don't need to worry about protecting myself from overexposure to the sun.



True or False?



FALSE

My skin doesn't get sunburned, so I don't need to worry about protecting myself from overexposure to the sun.

(29)

Skin cancer and other bad effects from the sun can affect any person, regardless of skin color.



Use the next six slides as a fun extension activity with students.















You might want to use Timon (Pumba's buddy) from The Lion King as a hint. Timon is the hyperactive meerkat with a motor mouth.











As a follow up activity ask students to construct their own riddles and share with the class.



