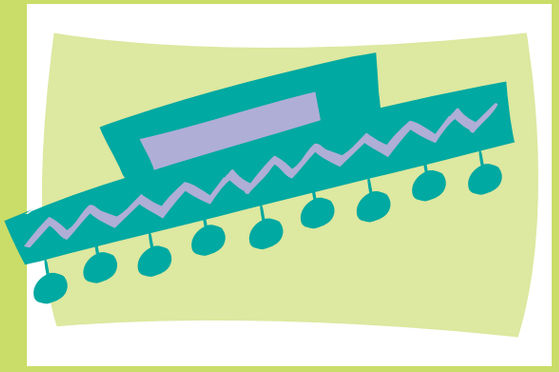
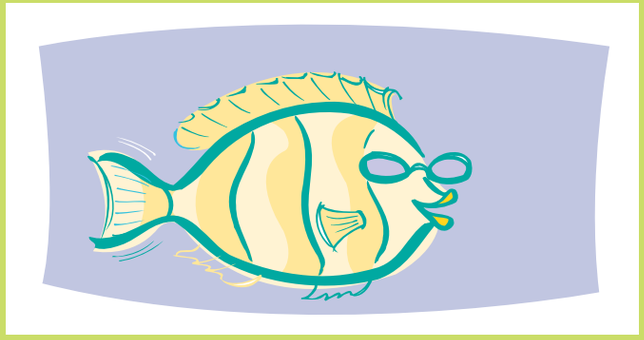
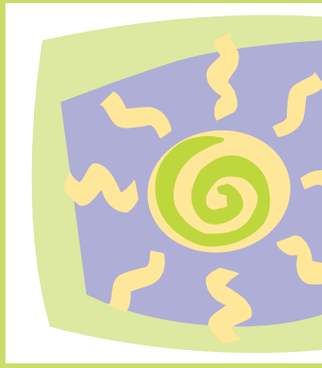
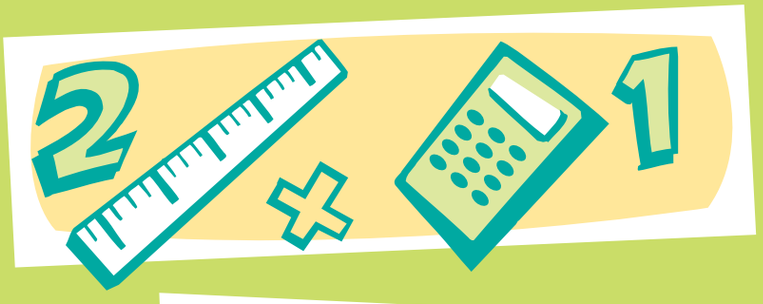
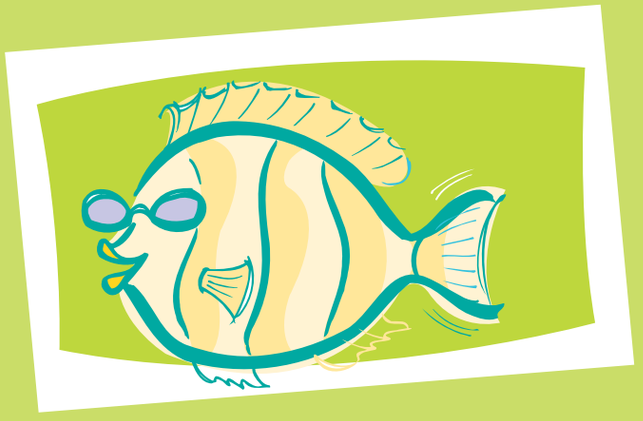
grades 6-8











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SUNWISE ACTIVITY TITLE	SUBJECT	English Language Arts											Health								Mathematics										Physical Education					Science				Social Studies			
		EDUCATIONAL STANDARDS	Standard 1	Standard 2	Standard 3	Standard 4	Standard 5	Standard 6	Standard 7	Standard 8	Standard 9	Standard 11	Standard 12	Health Concepts	Influence Factors on Health Behaviors	Health Information and Products	Interpersonal Communication	Decision-making Skills	Goal-setting Skills	Health Enhancing - Behaviors and Risks	Personal, Family, and Community Health	Numbers & Operations	Algebra	Geometry	Measurement	Data Analysis & Probability	Problem Solving	Reasoning & Proof	Communications	Connections	Representations	Movement Forms	Physical Activity	Physical Fitness	Responsible Behavior	Respect for Others	Science as Inquiry	Physical Science	Earth & Space Science	Science in Personal & Social Perspective	Culture	People, Places, and Environments	Science, Technology, and Society	Global Connections
A Sunny Performance	English/LA, Art				X			X	X			X																													
SunWise Show	English/LA, Art				X	X			X	X		X																													
Sun Scoop	English/LA, Health	X			X	X	X	X				X	X	X		X	X		X	X																						
SunWise Virtual Vacation	English/LA, P.E., Social Studies, Computers	X			X				X		X	X																		X											X
Sun Mythology	English/LA, Social Studies	X	X	X	X	X		X	X	X	X	X																												X			X
Sunsational Scientists in History	English/LA, Social Studies	X	X			X	X	X			X	X																													X		
The Sun Shines Around the World	English/LA, Social Studies	X			X			X	X	X		X																												X		
Why Does Winter Make Some People SAD?	Health												X		X					X																						
Sun Safe Beach Party	Health, P.E.												X				X	X	X												X	X	X	X	X							
UV Frisbee® Fun	Health, P.E.																X	X	X														X									
Personal Skin Assessment	Health, P.E., Social Studies												X						X	X													X							X		
Bargain Shopper	Math																				X					X		X	X	X											
Skin Cancer in Your State	Math																				X	X			X	X	X	X	X	X											
The SunWise Surveyor	Math																				X	X	X	X		X			X	X											
You Are the Architect	Math, Art																				X			X		X			X	X											
Detecting UV Light Using Tonic Water	Science																																			X	X	X				
Gumdrop Science	Science																																			X	X	X				
UV Frisbee® Science	Science																																				X	X	X			
Be A SunWise Traveler	Social Studies, Math, Science, Computers																				X	X		X	X	X	X	X	X	X						X		X	X		X	X	X
Supplemental																																										
SunWise Flier	Art, Computers																																									
SunWise Word Problems	Math																																									
UV Meter Activities																																										
What Works? Effectively Blocking UV Rays	Science																																			X	X	X				
Chart and Graph UV Intensity	Science, Math																				X			X	X		X		X							X	X	X				
Reflecting UV Radiation	Science, Math																				X			X	X		X		X							X	X	X				

SunWise Surveyor

Directions

You are a surveyor. You measure and map land areas and have been assigned to determine the current availability of shade on your school's property. This will help school administrators decide if the grounds are sun safe.

Take a survey of the grounds during a period when students are using them. Don't forget to be SunWise as you walk around the school!

Begin by drawing a map of the school grounds. Observe and mark on the map the most popular places where students congregate and play. These Play Areas can include sports fields, jungle gyms, blacktops, eating areas, and any other places where kids hang out.

Survey and mark the parts of the Play Areas that are covered in shade.

Measure the dimensions of the Play Areas, and write down your results. Then, measure the shade-covered portions of these areas. For circular-shaped areas, such as under a tree, measure the diameter of the shady spot. Record your results.

Questions

1 What is the total area of the Play Areas on your school's grounds?

2 What is the total area of the portions of those Play Areas covered by shade?

3 What percentage of the Play Area on your school's grounds is sun safe?

SunWise Surveyor

Estimated Time
One to two class periods

Supplies
Clipboards (optional)
Measuring tapes, yardsticks, or metersticks

Learning Objective
This activity will raise student awareness of daytime exposure to the sun. Students will focus on the amount of shade provided for their outdoor hours at school, and the importance of providing sun-safe areas on the property. Assess student comprehension by asking students to design a more SunWise playground (see the "You Are the Architect" activity).

Directions
Tell your students that they are surveyors who have been assigned to determine the current availability of shade on your school's property in order to help school administrators decide if the grounds are sun safe.

Have the class take a survey of the grounds during a period of time when students are present, such as recess or lunchtime.

Have the students begin by drawing a scaled map of the school grounds, observing and marking on the map the most popular places where students congregate and play. These Play Areas can include sports fields, jungle gyms, blacktops, eating areas, and any other places where kids hang out.

Now have students survey and mark the parts of the Play Areas that are covered in shade.

Have the students measure the dimensions of the Play Areas, record their results, and measure the shade-covered portions of these areas. For circular-shaped areas, such as under a tree, students will measure the diameters and calculate the areas of the shady spot, and write down these results as well.

Questions and Answers

1 What is the total area of the Play Areas on your school's grounds? *Answers will vary. Students will determine this figure using algebraic formulas to calculate the area of each Play Area, then adding the sums together.* $A = l \cdot w$

2 What is the total area of the portions of those Play Areas covered by shade? *Answers will vary. Students will determine this figure using algebraic formulas to calculate the area of each shade-covered area, then add the sums together.*

3 What percentage of the Play Area on your school's grounds is sun safe? *This answer will be determined by dividing the total area of shady spots by the total area of the Play Areas.*

This activity was adapted from *California Department of Health Services, School Shade Protocol*, Cancer Prevention and Nutrition Section.

Additional Resources
CDC's Shade Planning for America's Schools
www.epa.gov/sunwise/doc/cdc_shade_planning.pdf