UVR risk reduction
A sun safety policy guide for secondary schools
UVR risk reduction:
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Originally developed by the National Skin Cancer Steering Committee Secondary Schools Working Group on behalf of Cancer Council Australia

Cancer Council SA
202 Greenhill Rd
Eastwood SA 5063
t 08 8291 4111
f 08 8291 4268
e cc@cancersa.org.au
www.cancersa.org.au

All material can be copied freely.

Original version prepared by Stephanie Harper (Anti-Cancer Council of Victoria), Peta Conor (Anti-Cancer Foundation South Australia) and Ann Blunden (Cancer Foundation of Western Australia), for the National Skin Cancer Steering Committee, The Cancer Council Australia, June 2001.

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Why schools should be concerned about UVR exposure

Australia has the highest incidence of skin cancer in the world. Two in three Australians will get skin cancer before the age of 70. Over 1,700 Australians die from skin cancer each year.

Overexposure to ultraviolet radiation (UVR) from the sun during childhood and adolescence is known to be a major cause of skin cancer. Because of this, sun protection strategies are an essential part of the Australian way of life.

Schools have the potential to reduce students’ UVR exposure and future risk of developing skin cancer for the following reasons:

- the crucial period for sustaining damaging levels of UVR exposure occurs during the school years
- students are at school during high-risk UVR times five days a week
- schools, in partnership with families and their communities, can play a significant role in reducing exposure and changing behaviour through policy, education and role modelling.

School communities have a responsibility to implement skin cancer prevention strategies in the interests of student and staff health and welfare. Strategies must be practical in the context of the school’s environment and circumstances. It is best to begin with simple, achievable measures that can be readily implemented and gradually improved rather than attempt to do too much.

Many school systems have guidelines concerning exposure to UVR. It is recommended that these be considered in the development of your school community’s skin cancer prevention plan or policy.

Cancer Council SA recommends that schools implement a comprehensive skin protection policy when the UVR levels are 3 and above—which, for most of South Australia, is the months of September through to the end of April.

Ultraviolet radiation

Ultraviolet radiation (UVR) is the form of solar radiation that causes skin damage. Too much UVR from the sun can cause sunburn, skin damage (e.g. wrinkles, blotches and other signs of ageing), eye damage and skin cancer.

UVR (which can’t be seen or felt) is determined by the angle of the sun to the earth’s surface which changes during the year. UVR levels peak over the middle of the day when the sun is directly overhead. UVR levels can be extreme on a day of 40°C or a day of 21°C, depending on the time of year.

UVR does not feel warm and cannot be seen, but can cause sunburn in as little as 12 minutes in some regions of Australia. UVR can be high even on cool and overcast days, so clear skies or high temperatures can’t be used to determine when sun protection is needed.

UVR levels are divided into low (1–2), moderate (3–5), high (6–7), very high (8–10) and extreme (11 and above). This is based on the Global Solar UV Index (UVI), a rating system adopted from the World Health Organization.

UV Index levels

The higher the UVI the stronger the UV radiation levels and the shorter time it takes for skin to be damaged.

It divides UV radiation levels into:

- low (1–2)
- moderate (3–5)
- high (6–7)
- very high (8–10)
- extreme (11 and above)

A UVR level of 3 is high enough to cause skin damage to unprotected skin therefore it is important to protect skin when the UVR level is 3 and above. The higher the UVR level—the greater the potential for damage to your skin.
Cancer Council SA recommends that all schools implement a comprehensive skin protection policy when the UVR levels are 3 and above—which, for most of South Australia, is the months of September through to the end of April.

About the SunSmart UV Alert

The SunSmart UV Alert is a tool that indicates the hours when sun protection is needed on any given day (e.g. 9:10 am to 4:25 pm).

The SunSmart UV Alert times are issued daily by the Bureau of Meteorology (BOM)—when the UV Index is forecast to reach 3 or above. When a SunSmart UV Alert is issued—sun protection measures are recommended during the times indicated.

The SunSmart UV Alert is reported in the weather page of all major Australian daily newspapers, on the Bureau of Meteorology website www.bom.gov.au/weather/uv for over 300 locations across Australia, via pocket news on your mobile and on some television and radio broadcasts.

Check for the SunSmart UV Alert times when
- planning or participating in outdoor activities or events
- involved in recreational activities such as running, swimming, cycling or team sports
- watching outdoor events, such as tennis or cricket
- working outdoors.

Sun exposure and vitamin D

A balance between sun protection to lower the risk of skin cancer, and sun exposure for the production and maintenance of vitamin D is important for good health.

Current information indicates that at certain times of the year, when the UVR is below 3, it is safe for the general population to leave hats and sunscreen off to ensure vitamin D levels are maintained. Sun protection may still be required if spending time in alpine regions, around reflective surfaces or prolonged periods outdoors.

For the majority of the population, incidental sunlight exposure during normal daily activities is enough to maintain vitamin D levels. Current recommendations are that during summer most people need only a few minutes of sun exposure (either side of peak UV times) to their face, arms and hands to achieve adequate vitamin D levels. During winter, 2–3 hours of sun exposure to the face, arms and hands over a week is recommended. People with naturally very dark skin require 3–6 times more sun exposure for vitamin D. People concerned about their own vitamin D levels should discuss it with their GP.


Legal issues in relation to UV

Duty of care for students

In general, duty of care refers to the need to protect students against foreseeable harm. Sunburn is a foreseeable outcome of overexposure to the sun, and there is now considerable evidence linking UVR exposure, particularly during childhood and adolescence, to the development of skin cancer. It should also be remembered that skin damage may occur without any sign of sunburn.

Every teacher has a ‘duty of care’ towards every student under his or her supervision, by virtue of the conditions of the teacher’s employment, and by virtue of the common law principles of negligence.

Generally speaking a teacher owes a student a duty to take reasonable care to protect him or her from foreseeable risk of injury.

This duty may be manifested in many ways including:
- the duty to supervise the students so that they comply with rules and practices designed for their own safety and that of other students
- the duty to design and implement appropriate programs and procedures to ensure the safety of students
- the duty to ensure that school buildings, equipment and facilities are safe
• the duty to warn students about dangerous situations or practices.

Any activity that involves students being outdoors for any period of time should be seen as potentially placing them at risk of sunburn and other skin damage, and subsequent skin cancer.

Legal action has occurred in some states as a result of students being sunburnt during school organised activities, particularly all-day events such as swimming carnivals and excursions.

More information
DECS (SA) Duty of care policy

Occupational health and safety

Exposure to UV radiation has been recognised as an accepted occupational hazard for people who spend all or part of their working day outside. Occupational health and safety (OHS) legislation varies from state to state. You are advised to contact your OHS authority for further advice.


It includes information in relation to outdoor workers about:
• adverse health effects of solar ultraviolet radiation
• employer and employee responsibilities
• developing a UV radiation protection program
  ◦ risk assessment
  ◦ UV radiation control measures
  ◦ education and training programs
  ◦ developing a policy
  ◦ monitor compliance and review the program
• health surveillance.

While the guidance note does not have any legal force, it provides detailed information for employers and employees and others requiring guidance. The relevant statements from the guidance note regarding employer and worker responsibilities are as follows:

3.1 Occupational health and safety legislation in Australia requires employers to provide and maintain, as far as is practicable, a working environment that is safe and without risks to health. This is the employer’s general duty of care.

3.2 Workers are required to comply with all instructions given by their employer for reasons of health and safety and take reasonable precautions to protect themselves and others at work.

3.3 Workers should report any problems in achieving compliance to their employers.

3.4 Employers should consult with workers and/or worker representatives (such as health and safety representatives) on matters directly affecting their health and safety. In this case it should involve the assessment of exposure to solar UV radiation, the development of safe working procedures and other control measures.

More information
DECS (SA) UV Radiation/sun protection procedures for employees

DECS (SA) Administrative Instructions and Guidelines, Section 3 Student Matters—see 88 Skin protection

ARPANSA (Australian Radiation Protection and Nuclear Safety Agency) 2006 Radiation protection standard for occupational exposure to ultraviolet radiation

Risk management

UV radiation is a risk factor that requires attention in a risk management policy. In South Australia, DECS policy provides an effective structure and guidance for the management of risk across the Department of Education and Children’s Services. This covers all types of risk including the safety and well being of students, children, staff, contractors and volunteers. Other organisations may also have risk management policies.

More information
DECS (SA) Risk Management Policy
Developing a sun safety policy or plan

Getting started

Implementation of an effective skin protection policy or plan enables school communities to minimise the danger of excessive exposure to ultraviolet radiation (UVR) for students and staff.

If this is your first attempt at tackling a skin protection policy, your school may choose to develop a plan that can be implemented in stages, rather than immediately introducing a comprehensive policy. Schools that already have a range of strategies in place may prefer to proceed to policy development. This may involve documenting existing measures, introducing new measures, or both.

Try to involve representatives from all sectors of the school community, including students—it is important that everyone has the opportunity for input if you are to secure support for your strategies. A key element of the planning process is an education campaign to inform the school community of what you are trying to achieve and why. Cancer Council SA can supply materials such as posters, curriculum resources and fact sheets.

Once your policy or plan is complete, promote it through your school newsletter and publish it where it is readily accessible for everyone—student diaries and handbooks, staff handbooks etc. Ensure new staff members, students and parents understand what is expected and reinforce the message through regular reminders in newsletters, meetings and assemblies, especially at the beginning of each term.

The framework and tip sheets that follow are intended to assist you in developing a policy or plan to minimise UVR exposure for members of your school community. They could be used as an activity for a staff or committee meeting or as the basis for a professional development session.

A policy or plan?

This section provides a basic framework to assist you in developing your policy or plan.

The following headings should be included in your policy or plan:

- rationale
- aims
- implementation
- monitoring/evaluation

Building your policy

Here are some explanations and examples to help build your policy.

Rationale

The rationale gives meaning and a context for your policy. It provides a general overview of why your school has developed a policy. You may wish to modify this example for your school’s policy or plan.

Example

Australia has the highest rate of skin cancer in the world, creating huge social and economic costs. However, it is estimated that most skin cancers could be prevented by protecting skin from the sun during childhood and adolescence.

This skin protection policy or plan has been developed to reduce the risk to students and staff of overexposure to ultraviolet radiation (UVR) from the sun. It is to be implemented throughout the year, but with particular emphasis from the beginning of September to the end of April and whenever the UVR is 3 and above.
Objectives

Some examples of possible objectives for your school’s skin protection policy or plan are provided. You may wish to modify, delete or add to these examples and/or to distinguish between short and long-term objectives, particularly if this is your first policy or plan.

Examples

- increase student and community awareness of skin cancer and other skin damage caused by exposure to UVR
- assist students to develop strategies that protect their skin from the sun
- work towards a safe school environment that provides shade and other sun protective measures for students and staff
- encourage all members of the school community to protect their skin from UV radiation at all times, but particularly at high-risk times such as lunchtimes, sport, excursions and camps
- ensure that parents are informed of the school’s skin protection policy

Implementation

There are seven key sun protection areas:

- shade
- organisation of outdoor lessons and breaks
- all day events
- curriculum/school programs
- clothing, hats and sunglasses
- sunscreen
- risk management for staff.

Each sun protection area has a tip sheet (see next section—page 11) which provides relevant background information and a range of possible strategies and examples for your policy.

These strategies and examples are not exhaustive and you may choose to develop alternatives. If you require additional information for any category, contact Cancer Council SA.

Examples

A. Shade (link to Tip Sheet A)

- evaluate use of current shaded areas and areas where students congregate at peak UVR periods, particularly at lunchtime
- plan to increase shade in the next 12 months
- purchase portable shade for use in school lessons and events

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B. Organisation of outdoor lessons and breaks (link to Tip Sheet B)
- require students to use shaded areas while waiting to participate in activities during sports and physical education lessons
- shorten lunchtimes and have a longer morning break
- provide shade (tents/umbrellas) for sports lessons and outdoor events

C. All-day events (see Tip Sheet C)
- ensure that competitors’ marshalling areas are shaded throughout sports carnivals
- provide shade options for students and staff

D. Curriculum/School Programs (see Tip Sheet D)
- incorporate lessons on skin protection wherever possible

E. Clothing, hats and sunglasses (see Tip Sheet E)
- evaluate design of clothing currently worn at school, including that used for physical education/sports activities and consider making changes to improve protection from UVR (for example extending sleeves, requiring collars on shirts, long shorts/skirts)
- actively encourage wearing of broad brimmed/bucket hats

F. Sunscreen (see Tip Sheet F)
- educate the school community about the correct use of sunscreen and the level of protection it provides
- provide sunscreen at various points around the school

G. Risk management for staff (see Tip Sheet G)
- conduct a UVR risk assessment for all staff
Monitoring and evaluation

A commitment should be made to review your policy or plan regularly. It is recommended that this occur at intervals of no more than two years. A framework is provided to assist you in this process.

Example

This policy/plan will be monitored by <name of position/committee> who will:

- ensure that the policy is reviewed in <no more than two years after implementation>
- contact Cancer Council SA to ensure that up-to-date information is maintained in relation to resources and policy information

____________________________________________________________________________________

____________________________________________________________________________________

____________________________________________________________________________________

Monitoring and evaluating your policy or plan

Below is a framework that could be used to monitor and evaluate your skin protection policy or plan, including examples of objectives and strategies. We suggest that you regularly assess your objectives and strategies and make changes if necessary.

Objectives

Examples—existing objectives

<table>
<thead>
<tr>
<th>Objective</th>
<th>Fully, partially or not achieved</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work towards a safe school environment that provides shade for students and staff.</td>
<td>Partially achieved.</td>
<td>Trees planted on perimeter of school oval to provide shade for spectators. Temporary shade to be hired for events until trees grow. More shade required for canteen area.</td>
</tr>
</tbody>
</table>

New/revised objectives:

- 

- 

Implementation

Examples—existing strategies

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Fully, partially or not implemented</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluate design of clothing currently worn to school and for physical education / sports activities and consider changes.</td>
<td>Partially implemented.</td>
<td>Students are now required to wear polo shirts with elbow-length sleeves during physical education/sport lessons.</td>
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New/revised strategies:

- From term 1 next year, a SunSmart hat will be required for outdoor lessons.

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Tip sheets

A. Shade

Shade is the key element of a school’s skin protection strategy. Effective shade can reduce ultraviolet radiation (UVR) exposure by approximately 75%. The school development plan should aim to increase the amount of shade available in the school. Consult with the facilities or grounds committee to develop long-term shade strategies for the school grounds. Consider temporary shade structures as a short-term measure.

It is recommended that existing shade is assessed before planning additional shade and that a list of priorities be developed. A shade audit will help determine what shade is currently available, whether it provides effective sun protection and whether better use can be made of existing shade. A shade audit will also indicate if additional shade is required, where it should be located and how it can best be created.

Shade should be established in high-risk areas first. Shade should also be considered when planning outdoor events, whether held on the school grounds or at external venues.

Shade priority

Shade is required for outdoor areas where members of your school community congregate, but some areas will have a higher priority than others. You should focus on:

- areas where outdoor activities are likely to occur, or that students use during breaks between 10 am and 3 pm
- areas where outdoor activities occur and/or where people are likely to be watching outdoor activities for more than 10 minutes.

Assessing your shade

Using a site plan, mark where shade is available at peak UVR times and mark areas where students congregate. Compare the two and on the basis of this comparison, develop a list of priorities for change.

Some strategies for increasing shade at your school could include:

- maximise existing shade e.g. verandahs, covered walkways and covered canteen areas, by encouraging student use during breaks
- allow students to eat lunch indoors if shade in school grounds is inadequate
- plant trees, particularly near ovals and other activity areas
- plant trees in clusters to increase the shade area
- prune low-hanging branches from trees to allow access
- relocate garden beds that are in shaded areas
- build seating around trees
- move seats and tables to areas of shade
- erect portable shelters in exposed areas
- hire shade structures for large outdoor events
- conduct ‘club’ activities indoors during lunch and recess breaks
- ensure shaded areas are pleasant to sit in (for example, that they are grassed, clean of leaves and sticks or have seating, and that the gardener doesn’t water areas just before breaks).

B. Organisation of outdoor lessons and breaks

Ultraviolet radiation (UVR) peaks between 10 am and 3 pm (when the sun is directly overhead). About sixty per cent of the day’s UVR is received during this time. To reduce student and staff exposure to UVR, review timetables to minimise time spent in direct sun or outdoors during peak UVR periods.

Possible strategies include:

- consider shorter lunchtimes and longer morning breaks
- make indoor venues available during lunch and morning break times
- timetable outdoor classes early in the morning where possible
- schedule physical education/sports activities to maximise use of indoor facilities during high-risk periods
• consider rescheduling sports so that indoor sports are conducted during peak summer times (for example, badminton in summer and softball/baseball in winter)
• conduct outdoor assemblies early in the day
• plan fire drills etc early in the morning
• timetable lessons so the same class isn’t outdoors in peak time on consecutive days.

C. All-day events

Severe sunburn is likely when students are outside unprotected for long periods of time. The risk of skin damage on sports days and all-day excursions is high. Planning for outdoor events should incorporate a range of sun protection strategies.

• reschedule the event to minimise time outdoors during peak ultraviolet radiation (UVR) times if possible
• consider conducting twilight or indoor events, or early morning events over a couple of days
• consider conducting the event during the months when UVR is lower (May to August).

You should also consider discussing how inter-school sporting arrangements can be improved with the relevant school sports associations.

Consider the following strategies

Prior to the event:
• visit the venue to work out how much shade will be required
• organise portable shade structures—some local councils may hire or lend tents
• consider sharing the purchase of portable shade structures with neighbouring schools
• work out the best way to structure the day to maximise shade, given that it will move
• plan to provide plenty of sunscreen
• inform students, parents and staff that sun protection will be a priority and outline strategies to be undertaken
• encourage spectators to bring umbrellas or tents to supplement planned shade
• recommend that broad brimmed/bucket hats and long-sleeved clothing be worn by all spectators and participants when not competing
• promote a hat competition as part of the sports day
• promote house points or prizes for people covering up and encouraging others to do so
• remind participants to bring clothes so that they can cover up after they finish their events
• promote the sun protection message in all printed information about the day
• make SunSmart hats and clothing compulsory.

On the day:
• provide enough shade for spectators
• ensure shade is available where food and drinks are provided
• provide shade for the competitors at the marshalling areas
• provide shade for all officials where possible
• ensure students have shade while waiting for transport
• plan for the movement of shade during the day
• arrange for protective clothing to be taken to participants at the finish of events
• consider making hat wearing mandatory on the day for staff and students, except when competing
• encourage students, staff and parents to wear clothing that covers most of their skin
• consider including creative events to reinforce the sun protection message—conduct a mad hatter’s competition or a tug of war between teams wearing different styles of hats
• provide sunscreen at various locations
• assign students (for example, non-participants or members of the student representative body) to circulate with sunscreen
• give regular reminders about sun protection over the public address system.

D. Curriculum/school programs

It is important that environmental and behavioural elements of a skin protection policy are supported by education through curriculum programs. Students should not only understand how and why they need to protect their skin, but also have the opportunity to explore related issues, such as self image, peer pressure, fashion, culture and the media—all of which influence decision making in relation to ultraviolet radiation (UVR) exposure.

Activities relating to sun safety can be incorporated into a number of different areas of the curriculum, and may have quite different objectives, depending on the ages and needs of your students—and the stage your school has reached in the development of its policy or plan.

Go to Cancer Council SA's School zone www.cancersa.org.au/aspx/school_zone.aspx to view resources that are available to secondary schools.

The final section of this resource ‘Curriculum activity ideas’ lists some activities that teachers can use according to interests, time available, student background, curriculum area and year level.

E. Clothing, hats and sunglasses

Clothing

One of the most effective barriers between skin and the sun’s ultraviolet radiation is clothing. The overall protection provided by clothing will depend on both the material and the design. Clothing should be made from a closely woven fabric—as this kind of material provides the best protection. Clothing should also cover as much skin as possible. Dark colours block more UVR and hence give more protection than light colours, however they may be hotter to wear.

Uniforms should include collars, longer sleeves and longer length shorts/skirts. Three quarter length shirts will offer more protection to the arms.

The ultraviolet protection factor (UPF) rating is used to rate the level of protection provided by fabric. A material’s UPF is based on how much ultraviolet radiation is transmitted through the material. The higher the rating the greater the protection provided.

<table>
<thead>
<tr>
<th>Protection category</th>
<th>UPF range</th>
<th>% UV blocked</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent protection</td>
<td>40 to 50, 50+</td>
<td>97.5</td>
</tr>
<tr>
<td>Very good protection</td>
<td>25 to 39</td>
<td>95.9 to 97.4</td>
</tr>
<tr>
<td>Good protection</td>
<td>15 to 24</td>
<td>93.3 to 95.8</td>
</tr>
</tbody>
</table>

Note: Fabrics that do not carry a UPF rating do not necessarily offer less protection. It just means they haven’t been independently tested for sun protection.

Hats

A broad brimmed or bucket hat offers the best protection for the head, neck and ears. Cancer Council SA does not recommend baseball caps and visors as they do not offer adequate protection to the back of the neck and ears.

Possible strategies in relation to clothing include:

• modify the school uniform design or dress code to increase the amount of sun protection it provides
• consider allowing the winter uniform (or at least long pants) to be worn during summer
• choose school uniform material with the highest possible UPF rating
• encourage students attending swimming carnivals/classes to wear T-shirts or lycra protective shirts (rash tops/rashies) over bathers and have a dry shirt to wear when out of the water
• require sun protective clothing, including hats, for all camps and excursions
• require sun protective clothing, including hats, for physical education and sport
• involve students in the design of an appropriate school hat and clothing
• accept the wearing of ‘brand named’ (e.g. surf style) broad brimmed/bucket hats
allow students to wear their own sun protective hats, for example, ‘Akubra’
consider offering a choice of hat colours and styles
subsidise the cost of hats
offer spot prizes for hat wearers
explore ways of giving hat wearing a positive image
recruit influential students to act as role models—offer incentives if necessary
ensure staff act as role models by wearing appropriate hats and clothing.

Sunglasses
Like skin, eyes can be damaged by ultraviolet radiation (UVR). When worn with a broad brimmed hat, sunglasses can reduce the amount of UVR reaching the eyes by up to 98 per cent (compared with a reduction of about 50 per cent for sunglasses alone).

If students are encouraged to wear sunglasses, please note the following:
- to provide protection from UVR, sunglasses should conform with Australian Standard AS/NZS1067:2003. The standard relates only to the amount of UV passing through the lens
- sunglasses should be a close-fitting, wraparound style, to reduce the amount of UVR reaching the eyes around the edges of the lens.

F. Sunscreen
A sunscreen works by reducing the amount of ultraviolet radiation (UVR) reaching exposed skin. This means that sunscreen does not totally block UVR from reaching the skin. No sunscreen gives complete protection, so it must be used in combination with other sun protection strategies. Sunscreen should never be used to deliberately increase the time spent in the sun.

The sun does not need to feel hot to damage skin and eyes. The damage is caused by UVR, which is not seen or felt.

Applying sunscreen correctly
Sunscreen must be applied correctly to be effective.

- where possible, allow students to apply sunscreen at least 20 minutes before going outside
- apply to clean, dry skin. Leave a film of sunscreen on the skin—it should not be rubbed in
- apply evenly and generously—about one teaspoonful for each arm and leg and a ½ teaspoonful for the face, neck and ears
- reapply every two hours—more often if the skin is wiped, washed or sweaty
- never use sunscreen to extend time in the sun
- don’t forget your feet if they are exposed
- always use sunscreen in combination with other sun protection strategies.

Labelling
Sun protection factor (SPF) is a measure of the level of protection a sunscreen provides against sunburn. The higher the SPF, the more protection a sunscreen provides. The maximum SPF for sunscreens sold in Australia is 30+. A sunscreen product can only be labelled with an SPF number when it complies with the Australian/New Zealand standard. Cancer Council Australia recommends the use of SPF 30+ broad spectrum, water resistant sunscreen.

Broad spectrum means the sunscreen provides protection against the two types of UVR that reach the earth’s surface (UVA and UVB).

Strategies to increase sunscreen use:
- provide pump packs at various publicised points around the school with posters outlining correct application and emphasising the need for other sun protection methods
- place sunscreen on the booklist
- encourage parents to provide each student with their own sunscreen
- provide sunscreen for all outdoor lessons
- investigate whether parents’ groups can fund the provision of sunscreen
- recommend that students wear sunscreen to school and remind parents through newsletters
• remind students to apply sunscreen before outdoor events/activities
• investigate selling sunscreen as a school fundraiser
• Cancer Council SA provides schools with sunscreens at discounted prices.

Note: If you supply sunscreen, it is recommended that you inform parents of the brand and type, so that if it does not suit their child’s skin an alternative can be provided by the parents.

G. Risk management for staff

Workplace or occupational UVR exposure is a hazard for any education employee required to spend all or part of their day outdoors (see ‘Legal issues in relation to UVR exposure’). All staff are at risk during yard duty and outdoor events. Physical education, sport and outdoor education teachers and ground staff are at particular risk. Identify duties that involve exposure to UVR, for example, outdoor classes, yard duty, sporting carnivals - and the times of day, the duration and frequency of these tasks.

Some possible strategies to reduce staff risk include:
• conduct an education program for staff at a staff meeting or professional development session. Speakers Bureau booking forms are available at www.cancersa.org.au
• repeat the education program at appropriate intervals
• review the education program at appropriate intervals
• ensure that new staff are informed about UV risk reduction strategies
• include information in staff handbooks
• strongly encourage staff to keep a broad brimmed hat, sunglasses and a long-sleeved shirt at school for use during outdoor duties
• provide all staff with a broad brimmed hat
• encourage those staff who do not wish to wear a hat to use an umbrella instead
• make umbrellas available in the staff room
• subsidise the purchase of broad brimmed hats of their own choice for all staff
• encourage staff to wear clothing that protects as much of their bodies as possible, for example, tops/shirts/dresses that cover the shoulders and longer skirts/shorts, particularly for outdoor events
• emphasise the importance of staff acting as role models for students in reducing sun exposure
• educate staff about the correct use of sunscreen, including the meaning of SPF factors, correct application and the need for reapplication, and its use in conjunction with other UVR risk reduction strategies
• keep OHS&W issues and awareness high on your school’s agenda.
Curriculum activity ideas

The activities listed below are ideas that can be developed further and adapted according to objectives, time available, student interests and abilities.

To raise student awareness about skin protection at school and elsewhere:
- each student records their own activities over a week; assesses when and where they are at risk of sun damage; the kinds of activities they are involved in at the time; current risk reduction strategies (if any); and possible risk reduction strategies
- discuss issues relating to sun protection in different situations. Which factors influence the decisions to protect/not protect themselves from the sun? Do these factors vary according to different circumstances?
- develop a sun protection plan for an event such as a sporting carnival, fete, excursion or camp. This may include making suggestions about timing of activities, appropriate dress, temporary shade and strategies to encourage spectators to be protected from the sun
- develop a quiz for other members of the school community, for example, parents and younger students, to assess their knowledge of sun protection. It should include correct answers and an appropriate scoring system.

To raise the awareness of the wider school community about skin protection:
- develop an education campaign for a particular target group about a sun protection issue. This might be a general SunSmart campaign, or focus on a specific aspect of skin protection, for example:
  - the nature of UVR: e.g. peak times, the fact that UVR can’t be seen or felt and is not related to temperature, effect of UVR on the skin etc and the implications of this for prevention strategies
  - appropriate use of sunscreen: e.g. correct application and reapplication, meaning of terms such as SPF, broad spectrum and water-resistant and the appropriate role of sunscreen in reducing risk of overexposure to UVR
  - skin cancer and other damage resulting from exposure to UVR: e.g. why and how UVR causes this damage, statistics, types of skin cancer and other damage
  - the importance of early detection: e.g. how to check the skin and what to look for, what to do if concerned about a spot, etc.

To assess and improve the availability of attractive shaded areas within the school grounds:
- conduct observational studies of the areas where students congregate at peak UVR periods, particularly lunchtime. Students would need to draw a map of the school grounds, and consider questions such as how many students use shade, which shaded areas are most/least used, what students out in the sun are doing etc. These studies would need to be repeated at different times during the lunch break and on different days
- survey the student population in relation to current shade availability and possible improvements. For example, do they use current shaded areas? Why/not? Where do they believe new shaded areas should be created? What kinds of areas should they be? Develop a proposal for shaded areas according to usage patterns identified by the study. Students may be also able to design shade appropriate for the area.

To consider how clothing and sunscreen can be used as part of skin protection strategies:
- review the sun protective quality of the current school uniform, considering aspects such as style e.g. length of sleeves, skirts and shorts; presence of collars on T-shirts; colour; fabric weave; and types of hat available or recommended. Recommendations for changes could be developed
- develop designs for a range of sun protective or SunSmart clothing for a particular purpose e.g. a school or sports uniform, or a favourite weekend activity
- conduct a sunscreen survey to assess:
  - how many students have access to sunscreen
whether they are using it
whether they know where to find it within the school
whether they know how to apply it correctly.

To encourage responsible decision-making by students to reduce their risk of skin damage:

- students role play, in pairs, one of the following roles (then swap and play the other):
  - person A: Invite your friend to the beach, river or pool to see who is there and work on his/her tan. Your friend is new to the area and you try to convince him/her that a tan is essential to be part of the group
  - person B: You are new to the area and want to meet more people your age. You have skin that burns easily and have doubts about accepting your friend’s invitation.

As a class, discuss how students felt in each of the two roles. Questions for discussion might include:

- were you able to resist your friend’s invitation, and if so, how did you feel?
- what tactics did your friend use to attempt to persuade you, and how did those tactics make you feel?
- what are the reasons for and against accepting the invitation? Which reasons are most important? Why? Would those reasons always be the most important?
- how did you feel while you were trying to persuade your friend to accept the invitation?
- what could you do to help your friend meet people without placing them in this position?
- what strategies could be used by Person B to make friends without compromising his/her health?

Create and conduct other role plays like the one above, but using different scenarios related to sun protection e.g. hat wearing, sunscreen use, minimising time in the sun during the peak UV periods.

- ask students to brainstorm as many behaviours as they can that reduce the risk of skin damage due to sun exposure. As a class, discuss these strategies—which are most likely to be effective?
- develop a series of Dear Doctor (or similar) letters describing scenarios relating to sun protection, and ask students to develop responses. Scenarios could include:
  - my boyfriend/girlfriend thinks I look better with a tan
  - I know I should wear a hat but my friends give me a hard time when I do
  - our tennis matches are always scheduled for the middle of the day and I burn easily
  - our local swimming pool has no shade.

Alternatively, students can develop their own scenarios and swap them with a partner—then respond to the scenario developed by their partner.

To encourage students to be pro-active in identifying sources of UVR exposure and develop strategies to reduce risk:

- students choose a local facility at which outdoor activities are conducted and:
  - make an assessment of when and under what circumstances users of that facility are at risk of excessive UVR exposure
  - develop some strategies to reduce sun damage for users that could be implemented by the management of the facility
  - develop some recommendations for strategies that could be employed by users of the facility.

This might involve finding out who uses the facility and when, and visits to the facility at different times to assess shade availability. It could be done in small groups, with different groups allocated to specific tasks.