



Teachers' Notes

Curricular links to Health Education 5-14 National Guidelines and RSE Guidelines

Attainment outcome: Taking responsibility for health		
LEVEL C		
STRAND	ATTAINMENT TARGET	RSE GUIDELINES
<p>Physical health This strand explores physical factors in relation to our health and looking after ourselves.</p>	<p>Demonstrate simple decision-making strategies in relation to keeping safe and healthy.</p>	<p>Fluorescent and reflective materials.</p>

Teaching Background Information

FLUORESCENT	REFLECTIVE
<p>Fluorescent colours are very bright and show up best during daytime and at dusk. At night they are no better than other colours. The most commonly used fluorescent colours are yellow, orange and lime green. Yellow is the most effective. Clothing in such colours is usually available as jackets, arm bands etc.</p>	<p>Reflective material reflects the light from car headlights making visible the person who wears it. During the day it looks grey and dull. It is available as stickers, self-adhesive strips, tape and tags that can be easily fixed onto clothing or other items.</p>
<p>Some material is both fluorescent and reflective.</p>	

➡ It would be advisable to carry out this activity in Autumn or Winter, when the days are shorter and pupils should be wearing fluorescent and reflective clothing.

Useful Websites

- www.parents.org.uk/index.html?safety_be-safe-be-seen.htm&2
- www.colan-uk.net/children_safety





Suggested Lesson Plan

Aims

- ➔ To show the reasons why fluorescent/reflective materials should be worn on streets near traffic.

Learning Outcomes

- ➔ Understand and learn the meanings of fluorescent and reflective.
- ➔ Understand the reasons why fluorescent/reflective materials should be worn near traffic.

Resources

- ➔ Worksheet C1a – The Best-Dressed Pedestrian.
- ➔ Worksheet C1b – Designing a Traffic Friendly Jacket.
- ➔ Worksheet C1c – Designing a Traffic Friendly Rucksack.
- ➔ Glossary.
- ➔ Word Flashcards.
- ➔ Photo showing children wearing fluorescent tabards.
- ➔ *Be Bright Be Seen poster (DfT).*

Suggested Timing

- ➔ 60 minutes.

Suggested Development of Lesson

- ➔ Distribute Worksheet C1a to pairs and complete. (This acts as an introduction and also finds out what they already know.)
- ➔ As a class discuss their answers. (NOTE: The questions about weather are included as the weather can affect visibility and hence the need for fluorescent/reflective clothing.)
- ➔ Hold up the photo and discuss. Draw the pupils' attention to the appropriately dressed pedestrians. You could also show pupils the *Be Bright Be Seen poster (DfT).*



Suggested Lesson Plan



- ➔ You could show pupils the *Be Safe Be Seen stickers* (DfT) which are provided as a resource for use at Level A to remind pupils what reflective and fluorescent materials look like.
- ➔ Explain the difference between fluorescent and reflective. You may want to use the Glossary and Word Flashcards.
- ➔ Discuss how fluorescent and reflective materials might be used on clothing and accessories. Discuss the reasons why both fluorescent and reflective materials are needed (i.e. day/dusk/night) and how some material is both.
- ➔ Distribute Worksheet C1b and explain that pupils are to design a jacket to be worn by children walking to and from school near traffic. They are to indicate on the key the colour they have used for fluorescent and reflective materials (e.g. yellow and grey respectively).

Assessment

- ➔ Have the pupils made appropriate use of fluorescent and reflective materials on the jacket?

Curricular Links

- ➔ Environmental Studies – Knowledge and Understanding – Energy and Forces: Properties and uses of energy.
- ➔ Art and Design – Using media.

Follow-Up/Homework Activities

- ➔ Distribute Worksheet C1c. Pupils design an attachment or colour scheme for a rucksack or school bag that will help the user to be more visible near traffic. Pupils could use ICT for their design.
- ➔ Pupils go to the Streetwise Guys website on www.streetwiseguys.co.uk Play the game 'Seen in the right places'.
- ➔ Display – pupils bring in items, which are fluorescent and/or reflective.



Names:

Date:

AIM: you are going to learn about fluorescent and reflective materials.

TASK In pairs, answer these questions:

1. How do the clothes you wear help you to be a safer pedestrian?



2. Which weather conditions affect your safety as a pedestrian? Give reasons.

3. What can you do to make sure you are as safe as possible near traffic in these weather conditions? _____

4. Which times of the day are more risky for pedestrians? Why is this? _____

5. What can you do to make sure you are as safe as possible near traffic at these times of day? _____

6. We think reflective means ... _____

7. We think fluorescent means ... _____

8. Who needs to wear clothes, which are reflective or fluorescent, for their jobs?

Pupil Activities Answers

In pairs, answer these questions:

1. How do the clothes you wear help you to be a safer pedestrian?

Mention fluorescent or reflective clothing.

2. Why can some weather conditions affect your safety as a pedestrian? Give reasons.

• It is difficult to be seen in bad weather conditions e.g. heavy rain because the driver's visibility is reduced.

• It is difficult to be seen in strong sunlight or glare because the driver's visibility is reduced.

• When it is icy, snowy or frosty, some drivers do not always clean their car windows properly.

• Accept any other sensible answers.

3. What can you do to make sure you are as safe as possible near traffic in these weather conditions?

• Wear suitable clothing e.g. sensible footwear in snowy conditions.

• In heavy rain it is best to wear reflective clothing.

• In bright sunlight it is best to wear light or fluorescent coloured clothing.

4. Why are some times of day more risky for pedestrians? Give reasons.

• Night-time, dusk and dawn are all risky times of day because the driver's visibility is reduced.

• Morning and afternoon can be dangerous due to the glare of the sun, when it is low in the sky, especially in spring and autumn.

5. What can you do to make sure you are as safe as possible near traffic at these times of day?

Wear the appropriate clothing. At night-time wear reflective clothing and in the daytime and at dusk wear fluorescent clothing. Or you could wear clothing, which is both reflective and fluorescent.

6. We think reflective means ...

Reflects light from car headlights making the person visible. Reflective clothing is best worn at night-time.

7. We think fluorescent means ...

Very bright colours (e.g. yellow) that show up best during daytime and dusk.

8. Who needs to wear clothes, which are reflective or fluorescent, for their job?

Police officers, lollipop men and women, traffic wardens, firemen, road diggers, refuse collectors.

Name: _____

Date: _____

TASK



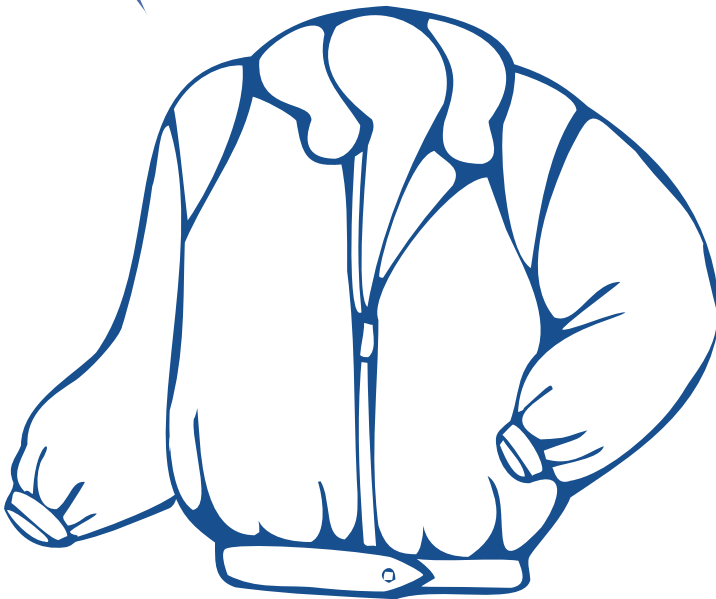
1. A top high street fashion store has asked you to design a jacket. This jacket is to be worn by school children on their way to and from school, walking or cycling near traffic.

2. Complete the key at the bottom of the page showing your colours for fluorescent and reflective materials.

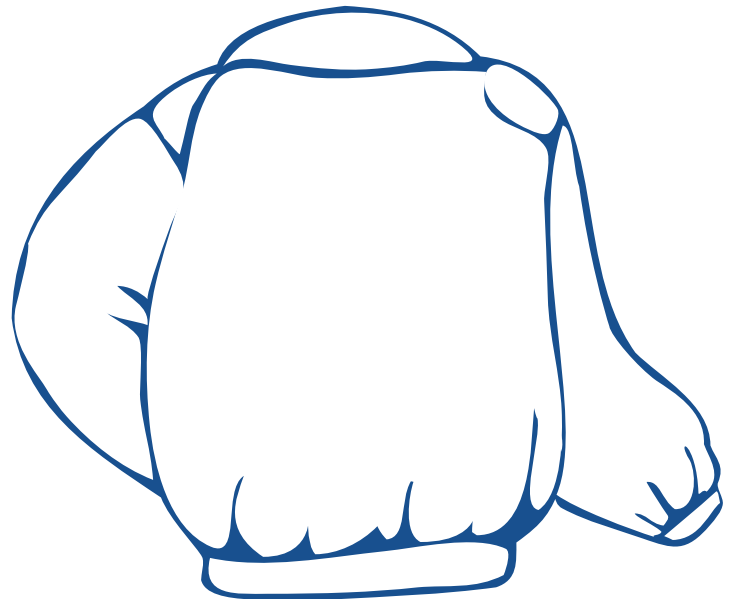


3. Fill in what you understand by the words **fluorescent** and **reflective**.

AIM: You are going to learn about fluorescent and reflective materials.



Front of Jacket



Back of Jacket

KEY

Fluorescent

Reflective

Material is fluorescent if _____

Material is reflective if _____

Name:

Date:

TASK

Well Done! Your jacket design has been accepted.



You have been set a second design task. Complete the rucksack below with a colour design and any other details to make it both stylish and safe.

AIM: You are going to learn about fluorescent and reflective materials.

KEY

Use the key to show which parts are fluorescent and reflective.

- Fluorescent
- Reflective



EXTRA

1. Can you design something to be attached to clothing or a bag to help the person be seen?
2. Draw your design on the back of this sheet.



Remember wearing fluorescent and reflective materials can help you to be seen by drivers.

