

PHYSICAL PROCESSES:

This pack consists of a collection of 26 screens giving a range of activities on physical processes and includes screens on light and sound, pushing and pulling, the changes in the position of the sun during the course of the day, shadows, electrical items and simple circuits.

THE OPENING SCREEN:



The opening screen provides a choice of buttons. The buttons link to the main topic areas which may be opened in any order.

1. Click on this button for an activity on pushing and pulling.
2. Click on this button for information about the buttons used on the screens.
3. Click on this button for an activity on changing shape.
4. Click on this button for an activity on the parts of a torch.
5. Click on this button for an activity on simple circuits.
6. Click on this button for an activity on animal sounds.
7. Click on this button for an activity on hearing things.
8. Click on this button for an activity on the position of the sun.
9. Click on this button for an activity on light sources.

CONTENTS:

Children should be encouraged to click the mouse on the various buttons and on text and graphics with speech support.

1. Pushing things - see the wagons moving and add text to the screen.
2. Pulling things - see the wagons moving and add text to the screen.
3. Pushing and pulling - group the pictures - pulling; pushing.
4. Changing shape - put the words and pictures in the right places.
5. Words about moving - match the cards or write about traffic signs.

6. More words about moving - changing direction and speed - simple animation.
 7. How animals move - sort the pictures according to the type of movement.
 8. Changing direction - using the keyboard / mouse to manipulate a car around a track (My World). Changing direction and speed - simple animation (Textease).
 9. The parts of a torch - take a torch apart and put it back together.
 10. Electricity - sorting electrical items - things with batteries or plugs.
 11. Circuits - copy a circuit drawing.
 - 12 - 16. What is wrong? - complete the sentences.
 17. Animal sounds - match the words and pictures.
 18. Hearing things - complete the sentences.
 19. Hearing things - complete the sentences.
 20. Sources of light - sort the pictures.
 21. Light and dark - match the cards and text.
 22. Where is the sun? - complete the screen.
 23. Where is the sun? - put the pictures in the right places.
 24. Shadows - complete the screen by matching text and pictures.
 25. A new screen - design a new screen
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THE SCREENS: The screens provide a variety of activities including dragging, labelling, sorting and investigative activities. Many may lead to related classroom activities such as 'hands on' practical work.

The screens are deliberately basic and uncluttered where appropriate with hidden popups / panels providing additional information, graphics and support.

Children may add to the screens by using the word banks. They may follow the instructions provided on clicking the task button or modify the screens according to their needs. They may check the answer using the answer button and use the arrows to move back and forth between screens.

All the screens have associated word or picture panels or both which are accessed via buttons. They also have task and answer panels.

Real speech is used in the My World format. Software speech is used in the Textease format. Click on the text, speech icons or hot spots where appropriate to hear it spoken.

MY WORLD AND TEXTEASE FORMATS:

This pack requires My World for Windows, My World 3 or Textease to run. Both formats are provided on the CD Rom leaving the choice to the teacher.

The My World format of the software self installs - the Textease format must be copied onto the hard disk manually. The My World installer installs the Welsh font Ysgol 2. -

Textease users should install 'Ysgol 2' by double clicking on the fonts folder and following the instructions on the screen.

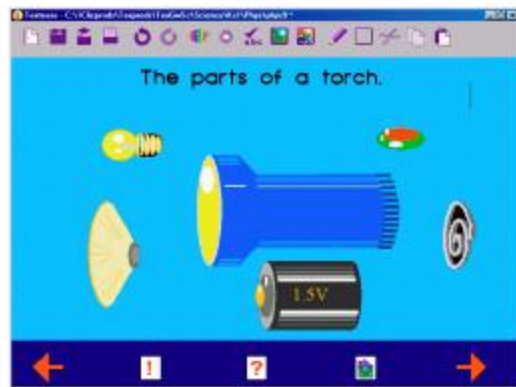
My World and Textease screens do not self correct. Some teachers may see this as a disadvantage. The advantages however is that children are given an opportunity to make their own minds up or discuss their ideas with others. Their outcome may be printed allowing My World and Textease screens to be used for assessment where appropriate.

THE BUTTONS ON THE SCREENS:



1 2 3 4 5 6 7 8 9 10- 11

MY WORLD FORMAT



1 2 5 10 11

TEXTEASE FORMAT

The buttons are listed from left to right and the My World and Textease formats of two different screens are shown.

The back button - click on this to go to the previous screen.

The task button - click on this to hear the task.

The text button - click on this to create new text.

The word button - click on this for a word list.

The help button - click on the hot spots or pictures within the help panel.

The resource button - click on this for some useful pictures.

The scaling down button - click text or graphics on this to reduce their size.

The scaling up button - click text or graphics on this to increase their size.

The bin - click text or graphics on this to delete them.

The home button- click on this to return to the opening screen.

The forward button - click on this to advance to the next screen.

See the Textease handbook for the functions of the buttons on the top bar.

THE PACK AND THE CURRICULUM: The pack supports many of the National Curriculum requirements for Key Stage 1 relating to Physical processes. The programs of study which are covered are:

SC4 Physical processes:

- 1a: about everyday appliances that use electricity.
- 1b: about simple circuits involving batteries, bulbs and wires.
- 1c: how a switch can be used to break a circuit.
- 2a: to find out and describe going faster, going slower, changing direction.
- 2b: that both pushes and pulls are examples of forces.
- 2c: to recognise that when things slow down or change direction there is a cause.
- 3a: to identify different light sources.
- 3b: that darkness is the absence of light.
- 3c: there are many kinds of sound and sources of sound.
- 3d: that sounds travel from sources getting fainter as they do so and they are heard when they enter the ear.

THE GRAPHICS:

The graphics used are simple purpose made vector drawings for three reasons:

- a) most are basic enough for children to copy them on paper where appropriate.
- b) they support the program without being a distraction in themselves.
- c) they require less memory than more sophisticated graphics / illustrations.

INCLUSION:

The screens are deliberately basic and uncluttered with hidden popups / panels providing additional information, graphics and support. Teachers / pupils are able to customize and save the screens if required.

Generally speaking, there is little visible text other than the headings on the screens. This reduces the amount of initial explanation / signing required on introducing a new topic to pupils with hearing problems.

Visually impaired pupils may resize moveable text or graphics using the maximize / minimize buttons in the My World format or by selecting then dragging one of the corners' in the Textease format.

The My World format has real speech support the Textease format of the software has software speech support.

ABILITY RANGE / DIFFERENTIATION: The screens have been designed for use by children of different abilities. Buttons allow them to seek help or further information, so the older / more able pupils may work independently.

Children may drag labels and other information to the screens or write their own text. They may use their imagination and customise existing screens or use the self design screens (see 'Teacher Control' below).

SUPPORT: The help button opens a support panel, which may be shared by several screens within the same topic area. The support may be in diagram or text form and clicking on hot spots within the help panel may open text windows or further help panels.

TEACHER CONTROL:

At first sight, the screens may not appear to have a great deal of teacher control. However, any moveable object on a screen, be it text or graphic may be deleted or enlarged, and new text may be added. The customized screen may be renamed and saved for future use.

The final screen provides an opportunity for the teacher / pupil to create new screens. This is more comprehensive in the My World format where there is a choice of 6 topic areas - frogs, food, the body, habitats, alive and plants.

INTERACTIVE WHITEBOARDS:

The screens in this pack have been redesigned for more efficient use with Interactive Whiteboards and are ideal for individual or group work and whole class teaching.

FORMATS: The pack includes the screens in MY WORLD format and TEXTEASE format plus the Welsh font 'YSGOL 2'.

The MY WORLD format requires My World for Windows or My World 3.
The TEXTEASE format requires Textease.

INSTALLATION: The My World format self installs. Textease users must copy the PhysTex folder to the hard drive, then create a shortcut on the desktop to the opening file – 1Physics.

FONTS: The Welsh font Ysgol 2 has been used on the screens by kind permission of the 'Micro-electronics in Education Unit for Wales' (MEU). www.meu.cymru.co.uk

The My World installer should install 'Ysgol 2. Textease users should click on the exe. file within the Fonts folder and follow the instructions to install 'Ysgol 2.

TECHNICAL SUPPORT:

Please contact Clic if you have any problems with the content of this program. Consult the My World help files for problems in running My World. Consult the Textease manual / help files for problems in running Textease.

PRICE AND LICENCE:

Prices and licences are subject to change without warning. Please check the details on our web site before ordering.

RELATED PRODUCTS:

Physical processes is part of the 10 pack **Clic Science Series**.

Other titles in the series are

KS1 Life processes and living things

KS1 Homes and houses (materials and scientific enquiry).

KS2 Humans as organisms is

KS2 Green plants as organisms.

KS2 Living things in their environment.

KS2 Materials and their properties.

KS2 Forces and motion.

KS2 Light, sound & the Earth and beyond.

KS2 Electricity and power.

These packs are available individually or as two collections:

KS1 Starting science.

KS2 More science

FURTHER INFORMATION: SCREENS AND GRAPHICS BY GAYNOR PERRY

CLIC, BWTHYN Y GLYN, NANT Y GARTH, Y FELINHELI, GWYNEDD. LL56 4QB

SOURCE OF INFORMATION GAYNOR PERRY. (from over 30 years teaching Secondary School Science in most of its subject areas and Biology to A level, including 20 years as a Biology A level Examiner).

IMPORTANT: The contents of the pack may not be copied or distributed to another individual or centre. Doing so would breach copyright and be illegal.

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Original version 1999

New version 2002 - 2003

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