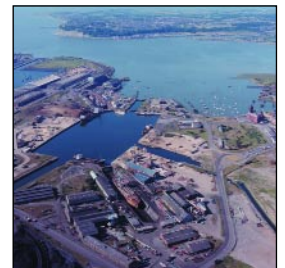
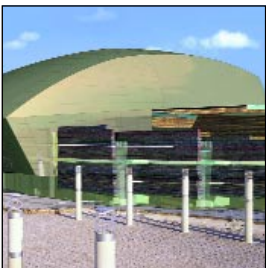


## INTRODUCTION TO THE PACK

Wales Millennium Centre will be a landmark centre for the performing arts staging musicals, opera, ballet and dance. International festivals, workshops, tours and visiting art exhibitions will take place against the background of a mixed retail setting. When the Centre opens in 2004 on Cardiff Bay waterfront it will stand alongside the most culturally outstanding arts venues in Europe.

The building makes a strong cultural statement for Wales and demonstrates the nation's new-found confidence as a player in Europe and on a world stage. The design concepts are inspired by the landscape and industrial heritage of Wales – the layered strata of sea cliffs – the multi-coloured slate of North Wales - the texture and colour of steel, and the simple beauty of Welsh hardwoods. Wales Millennium Centre will be a landmark building and will become a national icon.



### Aim of education pack

To utilise the exciting opportunity of the construction of the Wales Millennium Centre to develop resources to enhance educational provision in Wales and ensure that all our young people, their teachers and parents are aware of the arrival of this unique international arts centre in Cardiff Bay.

### Concept

A "think tank" was organised in November 2001, involving teachers and education advisers from all over Wales with the architects and WMC personnel responsible for the construction of the Centre. The group agreed on two guiding principles:

- The product should consist of a box of exciting resources, supported by suggested activities for teachers to use with a wide range of pupils. The suggestions would be provided to stimulate further activity and not meant to be in any way prescriptive.
- Resources for education based on the construction of the Wales Millennium Centre should be cross-phase.

### In addition, the resources would:

- be for use with pupils in primary and secondary schools throughout Wales
- be multidisciplinary, facilitating use in individual subjects and cross-curricular programmes
- include activities based on exciting stimulus materials
- make use of modern technology and encourage the use of ICT
- be available in both Welsh and English

### Methodology

Teams of teachers and education advisers from all over Wales worked on eight individual units over a period of six months. They were supported by expert advisers from Wales Millennium Centre and its contractors.

A "resource box" was trialled, reviewed and evaluated in Summer 2002.



## Contents

Units for:

- Numeracy and Mathematics
  - Visual Arts
  - History
  - Science
- Literacy and Language
  - Geography
  - Design and Technology
  - ICT

A CD Rom contains guidance for teachers with a range of activities for pupils relating to some or all Key Stages as indicated in Table 1 below.

SUBJECTS	KS1	KS2	KS3	KS4	POST 16
NUMERACY & MATHEMATICS	✓	✓	✓		
LITERACY & LANGUAGE	✓	✓	✓	✓	
VISUAL ARTS	✓	✓	✓	✓	✓
GEOGRAPHY		✓	✓	✓	✓
HISTORY	✓	✓			
D & T		✓	✓	✓	✓
SCIENCE	✓	✓	✓		
ICT	✓	✓			

✓ Resources can be adapted to extend into these Key Stages

### Resources include:

- CD Rom Teachers' guidance and activities
  - Video – the architect and his concept
  - Photographs of places and artwork
  - Plans
  - Census returns
- Introduction to Cardiff Bay
  - Samples of building material
  - Maps – old and recent
  - News articles
  - Leaflets

Some resources are unit specific; others serve more than one. It proved a challenge to manage sensibly this material so that expensive duplication would be avoided. Table 2 shows all the resources in the box and how they relate to each part of the curriculum. Where a paper-based resource is relevant to a number of curriculum areas, the (✓) symbol indicates their location. However, the full set of appropriate images are on the CD Rom in the specific unit. Thus the teacher is able to print off further resources.

- The teacher is encouraged to look through the whole pack so that inspiration can be found throughout
- The teacher may wish to laminate hard copies/downloaded CD Rom images for durability

### Curriculum-based suggested activities

For each area of the curriculum there are suggested activities for use of the materials. A summary is on the Overview sheet and each activity gives learning objectives, key words, cross-curricular links and the area of the National Curriculum being covered. The teacher will need to print the suggested activities from the CD Rom – choose Welsh or English and then enter the 'projects' folder. If there are any technical difficulties, contact WMC on address below.



Table 2 indicates which resources support which units and where hard copies are located in the Resource Case

RESOURCES UNITS	CD ROM	VIDEO	SAMPLES OF BUILDING MATERIALS	NEWSLETTER - STAGE FOR A NATION	MOOD BOARD OF DESIGNERS	A3 MAP OF WALES	MAPS OF WALES, EUROPE AND WORLD	MAPS AND PLANS OF CARDIFF BAY	PLANS OF WMC	PHOTOS OF FAMOUS BUILDINGS AROUND THE WORLD	PHOTOS OF WELSH LANDMARKS	POSTCARDS OF ARTWORK	INSCRIPTION	OLD/NEW PHOTOS OF CARDIFF BAY	AERIAL PHOTOS OF BAY	CENSUS RETURNS 1881	HISTORY TIMELINE FOR CARDIFF BAY	CARDIFF BAY TRAIL LEAFLET	NEWSPAPER ARTICLES
	NUMERACY & MATHEMATICS	✓	✓	✓	✓		✓	✓	⊗	⊗				✓	✓				
LITERACY & LANGUAGE	✓	✓	✓	✓		✓	✓			⊗	⊗	✓	⊗		⊗				✓
VISUAL ARTS	✓	✓	✓		✓	✓	✓	✓		✓	✓	⊗						✓	
GEOGRAPHY	✓	✓	✓	✓		⊗	⊗	⊗		✓	✓			⊗	⊗	✓		✓	✓
HISTORY	✓	✓						✓						⊗	✓	⊗	⊗	✓	
DESIGN & TECHNOLOGY	✓	✓	✓	✓	⊗				✓				⊗						
SCIENCE	✓	✓	✓			✓				✓	✓								
ICT	✓	✓		✓															

### Use of ICT

- All notes for teachers and suggested subject activities are provided on a **CD Rom**
- Images of all **paper resources** (maps, photos, articles etc) are provided with relevant units on the disc. Hard copies are located in prime user units in the Resource Case (see Table 2)
- **Powerpoint** audio visual presentation of Cardiff Bay “Follow me to ....” is provided on the CD Rom
- WMC **website** [www.wmc.org.uk](http://www.wmc.org.uk) is a source of further information and an opportunity to promote/publicise/exhibit related activities completed in school
- WMC website has an “**Ask the Expert**” section and a **webcam** which can be used for relevant activities
- During 2003, the suggested activities and many of the resources will be available in **PDF format** on the WMC website in password protected format

### Whiteboards

Use the CD Rom with your whiteboard - it is an excellent resource for this purpose. The images from the Visual Arts Unit will particularly benefit from whole-classroom use.

### Visits

The pack is designed to be free standing and its educational value is not dependent on a visit to the site. There is no doubt, however, that a visit to Wales Millennium Centre and Cardiff Bay would enhance children’s experience. There is a Viewing Gallery overlooking the building site which can be used as a base for a visit. Due to inherent risk levels, no access to the construction site is possible. At time of printing, it cannot be confirmed that the Viewing Gallery will be available beyond June 2003 as the contractors may have to reduce provision by the site. If you are interested in arranging a visit, contact Ruth Garnault at the address below.



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Blaenau Gwent	Bev Bannon	Literature & language
Blaenau Gwent	Emma Vaughan	ICT
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Cardiff	Paul King	D&T
Cardiff	Julie Ashfield	Visual art
Cardiff	Haydn Pritchard	D&T
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Carmarthenshire	Alan Walters	Science
Ceredigion	Aneurin Thomas	Science
Denbighshire	Aloma Williams	Visual art
Flintshire	Margaret Evans	History
Merthyr	Sean Lawrence	Geography
Neath & Port Talbot	Kathleen Davies	Literature & language
Neath & Port Talbot	Claire Pudner	Numeracy
Pembrokeshire	Eva John	Literature & language
Pembrokeshire	Catrin Griffiths	Literature & language
Pembrokeshire	Barbara Thorne	Numeracy
Pembrokeshire	Mark Bartlett	Numeracy
Powys	Robert Downing	ICT
Rhondda Cynon Taff	Tracey Stephens	Literature & language
Swansea	Carolyn Davies	Visual art
Swansea	Marilyn Griffiths	Visual art
Swansea	Margaret James	Visual art
Swansea	Dawn Phillips	Visual art
Swansea	Sheila McLaren	Visual art
Torfaen	Gwen Garrero	Cwricwlwm cymreig
Torfaen	Barbara Scott	Literature & language
Wrexham	Karen Morris	History

• **Schools which trialled the packs during Summer 2002:**

Caerphilly	Ysgol Gymraeg Bro Allta
Cardiff	Ysgol Gyfun Gymraeg Glantaf
	Bishop of Llandaff High School
	Michaelstone Community College
	Hywel Dda Junior School
Carmarthen	Coed Cae Comprehensive School
	Richmond Park Primary School
	Amman Valley School
Denbighshire	Ysgol Bryn Hedydd
Flintshire	Wood Memorial Primary School
	Connah's Quay High School
Merthyr Tydfil	Pantysgallog Primary School
Monmouthshire	Goytre Fawr Primary School
Neath Port Talbot	Blaenhonddan Primary School
	Rhos Primary School
Newport	Clytha Primary School
Powys	Bronllys Primary School
Rhondda Cynon Taff	Hirwaun Primary School
	Aberdare Boys Comprehensive School
Swansea	Bishopston Comprehensive School
	Whitestone Primary School
Torfaen	West Monmouth Comprehensive School
Wrexham	Ysgol y Ponciau

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Cardiff	Robert Cornelius
Cardiff	Paul Hammacott
Caerphilly	Greg Owens
Caerphilly	Brett Pugh
Flintshire	Audrey Desborough
Gwynedd and Anglesey	Hugh Gwynne

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Steel: Rimex Metals; Avesta Polant, Panteg; Concept Balustrades; NG Bailey  
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Wales Tourist Board: photographic library  
Western Mail & Echo for photographs  
Dan O'Neill – photographs and extracts from "Tiger Bay and the Docks"  
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Pack designed by Isabel Butcher (designis)

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