# **Appendices**

Appendix A Research processes in detail

Appendix B Second case study: A Teesdale Primary

School and the Bowes Museum

Appendix C Research tools

Appendix D Coding tree for the QSR N6 analysis

### **Appendix A**

### Research processes in detail

#### A1. The Index of Multiple Deprivation 2004 (IMD 2004)

The Indices of Multiple Deprivation 2004 (IMD 2004) is a composite index derived from a series of other indices, using information from the 2001 Census and similar data-sets. It is based on the premise that deprivation is ultimately experienced by individuals. The overall IMD 2004 rank (as used here) is determined from seven sub-indices:

- Income
- Employment
- Health and disability
- Education, skills, training
- Barriers to housing and services
- Living environment
- Crime

The IMD 2004 measures multiple deprivation at Super Output Area level (SOA). SOAs are aggregates of Census output areas with units of, on average, 1500 individuals. The intent is to uncover smaller pockets of deprivation which may remain hidden in larger units such as wards and enable a consistent unit of measurement. In total there are 32,482 SOAs in England. Each SOA has been given a rank based on the analysis of the seven sub-categories as outlined above, where 1 is the most deprived SOA and 32,482 is the least deprived SOA.

Where postcodes were missing or incomplete or from outside of England they could not be linked to a relevant IMD 2004 rank. Different indices are compiled for Scotland and Wales for example which make comparison difficult.<sup>2</sup> Once the postcodes were ranked, in order to facilitate the analysis they are divided into 10% categories following the boundaries below, e.g. the top 10% of deprived SOAs in England would fall in between a ranking of 1 and 3248 (Fig A1a).

<sup>&</sup>lt;sup>1</sup> Neighbourhood Renewal Unit, 2004, The English Indices of Deprivation 2004: Report to the Office of the Deputy Prime Minister, Stationary Office, London

<sup>&</sup>lt;sup>2</sup> See <a href="http://www.scotland.gov.uk/stats/simd2004/">http://www.scotland.gov.uk/stats/simd2004/</a> for Scottish Index of Multiple Deprivation 2004 which has six sub-indices instead of seven [accessed 07 08 2007]

Fig. A1a: Categories for presenting the IMD 2004 rank

Category	Bound	Boundaries	
Top 10%	1	3248	
10-20%	3249	6496	
20-30%	6497	9744	
30-40%	9745	12992	
40-50%	12993	16241	
50-60%	16242	19489	
60-70%	19490	22737	
70-80%	22738	25985	
80-90%	25986	29233	
Bottom 10%	29234	32482	

It should be borne in mind that the IMD 2004 categories refer to units of 1500 people, and although they may be more accurate than measuring deprivation than at ward level, they may still mask individual circumstances.

#### A2. Rural and Urban Area Classification 2004

The Rural and Urban classification is the product of a joint project to produce a single and consistent classification of rural and urban areas. Two measurement criteria were used in creation of the definitions of rural and urban based on hectare grid squares:

- Settlement form either dispersed dwellings, hamlet, village, small town, urban fringe and urban (>10k population)
- Sparsity each hectare grid square is given a score based on the number of households in the surrounding areas up to a distance of 30km

These hectare grid squares were then applied to Census 2001 Output Areas, Wards and Super Output areas. The classification can therefore be used with any data source that can produce results at these levels.<sup>3</sup> Through the Neighbourhood Statistics website (<a href="http://neighbourhood.statistics.gov.uk">http://neighbourhood.statistics.gov.uk</a>) the Lower Layer Super Output Area (LSOA) can be identified for a postcode, which then enables, through an EXCEL dataset, the relevant rural or urban classification to be found. Unlike other units, LSOAs are categorised into just three domains:

- Urban >10k
- Town and Fringe
- Villages, hamlets and isolated dwellings

The resulting classification is based on the predominant settlement type within the relevant area.4

In the report this process is referred to as the Rural / Urban morphology database.

<sup>&</sup>lt;sup>3</sup> http://www.statistics.gov.uk/geography/downloads/Introductory Guide.pdf [accessed 07 08 2007]

<sup>&</sup>lt;sup>4</sup> http://www.statistics.gov.uk/geography/downloads/Rural Urban Metadata.pdf [accessed 07 08 2007]

#### A3. ACORN classification

Information, albeit basic, was available from websites such <a href="http://www.upmystreet.com/">http://www.upmystreet.com/</a> which enabled an approximation of the 'types' of people who were visiting The Bowes Museum and the National Gallery during the periods of research to be identified from their postcode. This website enabled access to the ACORN classification system, a geo-demographic tool built by the commercial company CACI which can be used to identify and understand the UK population for marketing purposes. ACORN categorises all 1.9 million UK postcodes, which have been described using over 125 demographic statistics within England, Scotland, Wales and Northern Ireland, and 287 lifestyle variables, and is based on the premise that people in similar areas have the same needs and lifestyles. However there is the important caveat attached that the descriptions are based on the neighbourhood in which the household is located, which is a wider area than that identified by the postcode itself:

"...the overview describes characteristics frequently found in these neighbourhoods. Since most postcodes include a mix of people we don't expect everyone there will fit the description perfectly."

The ACORN tool categorizes people into 'types' which give details of what their income, lifestyle choices and social class are likely to be. Because it is developed as a consumer and marketing tool it can only give a crude approximation of the types of respondents from their postcodes but it may be helpful for comparison purposes.

There are some discrepancies between the ACORN classification and the IMD 2004 because both datasets are built for different purposes. The IMD 2004 was developed for the Office of the Deputy Prime Minister to provide a measure of neighbourhood deprivation at Lower Layer Super Output area, approximately 1500 people. In contrast ACORN classifies areas according to similar key characteristics, using the IMD 2004 and detailed census data alongside information from consumer lifestyle surveys to group households into categories which reflect their lifestyle choices and consumer behaviours. Consequently, ACORN is not a true measure of deprivation although it does classify some households according to high unemployment, health problems and severe overcrowding. Since we were looking for an overview of the types of people completing response cards we have not gone into detail regarding the possible reasons for these discrepancies, other than that they are built with different aims in mind.

All UK postcodes, except Northern Ireland, can be categorized under the ACORN system so postcodes from Wales and Scotland, which have to be excluded under the IMD 2004, could be included.

371

<sup>&</sup>lt;sup>5</sup> <a href="http://www.caci.co.uk/acorn/whatis.asp">http://www.caci.co.uk/acorn/whatis.asp</a> [accessed 26 09 2006]

<sup>&</sup>lt;sup>6</sup> http://www.upmystreet.com/local/my-neighbours/neighbourhood-profile/I/DL2+2DG.html [accessed 26 09 2006]

<sup>&</sup>lt;sup>7</sup> DfES, Technical Review of deprivation indicators used in local authority funding formulae, Crown Copyright, July 2006

<sup>&</sup>lt;sup>8</sup> Annex 1: Measuring Deprivation, Extract from the Compendium of Clinical and Health Indicators User Guide, National Centre for Health Outcomes Development, Crown Copyright, April 2005,

http://www.nchod.nhs.uk/NCHOD/Method.nsf/d3034ecd39b65e4965256cd2001d834f/31d3544ae989a8a080256d41004a6c0f/\$FILE/Compendium%20User%20Guide%202005%20Apr%20Annex%201%20V1.doc [accessed 27 09 2006]

#### A4. Chi Square tests

A chi square test was undertaken where it was felt important to test if a relationship between two variables was significant, for example where cross-tabulations have been used to compare two variables such as interest in art and gender. However it must be noted that Chi square tests cannot always detect real difference where sample sizes are small.

Typically a significance value of less than 0.05 is considered significant, e.g. that the two variables are related, are probably 'true' and not due to chance.

### **Appendix B**

# Second case study: a Teesdale Primary School and The Bowes Museum

- B1 Aims and objectives for 'The Madonna of the Pinks'
- The National Gallery timetable and aims and objectives
- Middleton-in-Teesdale Primary School 'The Madonna of the Pinks' project presentation at The Bowes Museum

#### B1. Aims and objectives for The Madonna of the Pinks

#### **B1.1 The Bowes Museum and Primary School**

- Engaging in art, gathering some understanding of the symbolism within the painting.
- Using knowledge to improve drawing/painting skills.
- Experience the use of different media including sculpture and digital work.
- Developing work in both small and large groups.
- Developing ideas to create a finalised project.

#### **B1.2 The Bowes Museum**

- Develop a long-term partnership with a school that have a focused art approach.
- Gather evidence of long-term impact from pictures.
- Use one exhibition to stimulate an exploration of art in many different formats.
- For Museum staff to have the opportunity to engage and re-engage with a group of students over a prolonged length of time to assess their responses and meet their evolving needs.

#### **B1.3 The Bowes Museum artist**

- This project will strengthen my own links and relationship with the school as an
  artist, as well as developing my experience of working on longer-term
  projects. The benefits will include working with the same group of children
  and building up a relationship through the project to see their understanding
  and development of skills.
- The children will have an opportunity to experiment with and try new techniques, using materials and skills which they might not normally have time to experience within school. By looking at the painting and its meaning in depth, I will work with the children to interpret the imagery and their own thoughts and feelings about the painting.

The results of working with the children and the school on this project will be a
developed relationship for possible future partnerships, as well as a greater
understanding of how and why such paintings were made and some of the
techniques, materials and skills used by artists. Each child involved will have
evidence of their learning, showing how they have developed their own skills
and knowledge.

#### **B1.4 The Bowes Museum Artist's Project**

#### Final Outcome:

- A collection of <u>private</u> ideas and understandings gained from exploring Madonna of the Pinks and the other paintings in the exhibition.
- For children to collate their work for their own private reflection (as the Madonna of the Pinks was intended).

We will explore three areas of interest identified by both the Museum and the School that address our aims and objectives:

- 1) How did the Renaissance painters paint?
  - Study of the different types of painting techniques used within the Renaissance period resulting from the development of egg tempera to oil. (Compare Raphael's smooth brush strokes to Ghirlandaio's quick, sharp strokes).
  - Have a go at working in both of the above media.
  - Practice colour mixing using colours nearest to pigments available at the time.
  - Practice painting various element from Raphael's picture e.g. pinks, flesh tones, the landscape.
  - Practice overlaying colours to achieve warm and cool tones.
- 2) What is it like to sketch a mother and child?
  - Invite a mother and child into the school for the children to sketch –look at the difficulties that having a 'live' model can create.
  - Try and create rapid sketches of a child like those in the Madonna of the Pinks booklet
- 3) What is shown in the painting? What symbols are included in the painting? What do they mean?
  - Children to create mind maps that explore the images and symbols in the painting – e.g. the landscape, the pinks, the clothing, the expressions on Mary and Jesus' faces – relate these symbols to other pictures within the exhibition.
  - Using different media to take a multimedia approach to the picture. Use cut out copies of the painting, digital cameras to capture information, paint, pencil, pen and ink.

### **B1.5 Timetable of activities for Bowes Museum Artist:**

Day 1 Helman market (local State of Control	AA mila stada
Day 1 – Using paint (Individual work)	Materials
AM – Children will experiment with, and	Oil paints, linseed, odourless solvent,
be shown how to mix oil paints/colours.	brushes, tear-off palettes, oil paper, boards and/or canvas.
Concentrating on painting different	boards ana/or carivas.
textures as in the painting, such as skin,	Cloth (similar to painting) Pinks nos
cloth, hair, flowers and landscape. Look	Cloth (similar to painting), Pinks, pos.
at the meanings of colours/flowers used.	images of landscapes.
PM – Children will create their own	
interpretation of 'Mother and Child', using	
skills using colour mixing.	
Day 2 – Drawing from Life (Individual	
work)	
AM – Looking at the face, and how	Drawing paper, Earth toned drawing
artists use sketching/drawing techniques	pencils.
to correctly draw the face and figure in	
proportion. Including expression and	
pose, and their possible	
meanings/intentions.	
PM – Life drawing session, working from	Pastel drawing paper, pastels, fixative
'mother and child'.	Taster drawing paper, pasters, fixalive
(find out if ok to take photos – to be used	
for multimedia session)	
,	
Day 3 – Multimedia (group work)	
AM only – Children will work with	Colour and black and white copies of
collected images, including drawings,	sketches, photographs of original
photographs, photocopies, and digital	painting. Copies of children's own
prints to compose several group pieces of	sketches and painting. Other
work exploring what they have learned	photographs of mother and child, such as
about the painting and its meaning.	life model (to check), baby magazines
	etc
	Computer, digital camera, scanner,
	printer, ink cartridges, photo quality
Additional content of	paper. Scissors, pritt, mounting card
Additional session- Container	Valda la ala sida d
Children will work in small groups for an	Yet to be decided.
hour or so each group, either over a full day or two half days. Each child will	
produce a container or box to house their	
results of the project, with the intention to	
keep everything together, safe and	
private as with the original Raphael	
painting.	
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#### **B2.** The National Gallery timetable and aims and objectives

#### **B2.1** Aim

- To introduce some of the tools and materials of sculpture and experiment with transcribing the painted image into three dimensions.
- To provide the opportunity to discuss the images in the exhibition and their relevance to contemporary children

#### **B2.2 Details of activity**

Using the Madonna of the Pinks and other Madonna images, we will look at how the relationships between mother and child are described by their body language. By physically trying out some of the positions in the paintings, we can discuss the decisions made by the artists. We will then make a wire armature, giving consideration to basic proportion, and play with positioning the figure.

#### **B2.3 Materials**

We will use two types of clay, terracotta, and self-hardening grey clay and we will discuss their properties, before clothing the armature in clay.

# B2.4 Links between The Bowes Museum and National Gallery aspects of the project

- All aspects of the school's aims for the project (in terms of medium exploration, symbolism, social aspects of working in art, developing of skills and developing ideas for a finalized project), should be met by a combination of working with artists from both venues.
- Subject matter and the medium used by both venues will complement each other to gain a 'whole' understanding of the painting: understanding of the mother and child relationship, composition, use of colour.
- A combination of working with the two venues should show a complementary
  understanding of the use of materials and their properties used in artwork. The
  National Gallery focus for this will be on the appropriate use of materials used in
  sculpture, whilst The Bowes Museum focus on paintings will explore the use of
  different paints and types of material that these can appropriately be painted
  on to.
- The purpose of the finished pieces of artwork will be different between the two
  venues but will again complement each other. Whilst The Bowes Museum work
  will allow children to have a greater understanding of Renaissance painting styles
  and techniques, The National Gallery will develop this understanding into a more
  contemporary exploration of the form of mother and child, exploring modern
  techniques that can be used to achieve this.

# B3. The Teesdale Primary School 'The Madonna of the Pinks' project presentation at The Bowes Museum

What follows is a transcription of the pupils' project presentation at the Bowes Museum. The entire class participated in the presentation. In a line the children took turns to read out what had been their favourite thing about working on the project. There was a large range of responses, including comments relating to techniques and 'working with real artists' 'going to a museum', and seeing the Madonna of the Pinks.

Names of pupils and other research participants have been removed to protect confidentiality.

#### **B3.1 Introduction**

Good afternoon and welcome to all the parents and supports we have here today. We are going to give you a taster of some of the activities we have been doing over the past month relating to The Madonna of the Pinks.

Unfortunately we can't describe **every**thing because we've just done **too** much stuff and we'd be here all evening!

Firstly, here's a selection of tasks we have completed or new techniques we have learned.

(Everyone shouts)

Now I give you [our] School's Presentation.

#### **B3.2** Oil Painting

#### **USING A PAINTING BLOCK**

- We are going to talk about oil painting, a task we completed with [artist] from the Bowes Museum.
- These are examples of some of our classes work.

## GOING TO SEE THE MADONNA OF THE PINKS CREATING A PRINT BLOCK

- The first thing we did was draw some flowers and cloth in still-life onto paper.
- Once we'd completed a small painting, we decided we'd be clever and paint a big one.

## MAKING THE SCULPTURES WORKING WITH A MASTERPIECE

- We chose our favourite bit and made it bigger on oil painting paper.
- These are examples of some of our classes work.

• We learned so much about Madonna of the Pinks that we painted our own versions onto board.

MY FAVOURITE THING	WAS
--------------------	-----

#### LIFE DRAWING

- When we'd done this [artist] showed us how to mix colours using a small amount of paint. She showed us how to make a colour darker without adding black
- When we'd finished drawing them we used all the techniques we'd learned to finish them.

## USING THE OIL PAINTS MAKING SCULPTURES

- Then we started our own paintings. We learned how to use linseed oil and san-sa-dor to thin the paint and clean the brushes.
- Here's some examples, in the finished cases our friends will be talking about.

#### GOING TO THE MUSEUM

#### **B3.3 Printing**

#### **RE-ENACTING A PAINTING**

[Artist from National Gallery] and [National Gallery educator] came back to school to do some printing with us. We used the painting of Bacchus and Ariadne to give us some ideas.

## EVERYTHING! USING PASTELS

[National Gallery educator] told us the story of the characters in the picture. Then we chose one of the people or animals from the painting to make into a print.

#### **GETTING MESSY**

First we drew the outline of our chosen character on a piece of paper, then we glued on some string following the pencil lines. We brushed ink onto the string, covered the paper with cloth and pressed down. When we lifted the cloth, we had made a print.

## MAKING A FOLDER WE USED ACRYLIC PAINTS

We did more printing with [artist]. We made a printing block to use to decorate folders to keep all our work in.

#### PAINTING OUR OWN MADONNA OF THE PINKS

First we drew some shapes on some foam, then we cut them out. We glued the shapes onto a piece of card. We used silver, gold and bronze acrylic paint to cover the shapes.

## ALL OF IT! MIXING SKIN TONES

Then we pressed the stamps carefully onto the cover of the folder. We tried not to move the stamp so that the print would not smudge. Here is what we made.

#### **DRAWING**

#### **B3.4** Armatures

#### **QUICK SKETCHES**

- We're going to talk about how to make armatures. These are clay and metal sculptures.
- You have to make sure the clay is really smooth or you're person will look like the Michelin Man! We tried really hard.

#### GETTING MESSY! STILL LIFE DRAWING

- First, you start with the head and this is how you do it (DO IT!)
- We looked carefully at our joints, ankles, knees, hips, elbows and wrists. This helped us to put our armature in to the correct position.
- When two complimentary colours go together they look more colourful. For example the blue looks more blue!

## ARMATURES IMAGINATIVE DRAWING

- Once you've made the head and legs, you've got to add the arms. This was
  quite tricky but we all managed it with [artist] and [NG educator]'s help. This is
  what it will look like!
- Once the clay was on and we'd done the facial features, we had to wait for them to dry it didn't take long!

## EVERYTHING INCLUDING HAVING FUN! LOOKING AT PAINTINGS FROM DIFFERENT TIMES

- We learned a new technique called thumbing. This is where you put the clay on carefully from a large blob you have.
- We'd learned so much about complimentary colours and how Raphael used them, we used them to paint our figures.
- This is a finished sculpture using blue and gold as complimentary colours.

#### HAVING LOTS OF FUN

#### **B3.5 Drawing**

#### STRING PRINTS

- We are going to talk about drawing and what we used to draw.
- We designed our boards on paper. Everybody had different ideas but these are some of ours.

This is what the finished painting looked like.

## MAKING SCULPTURES PRINTING ON CLOTH

- So as you know, the painting is called The Madonna of the Pinks. We have done drawing based on this painting with both [artists].
- It was also difficult because [the baby] wouldn't stay still! However we managed it in the end.

### GOING TO THE BOWES MUSEUM WORKING IN SMALL GROUPS

Our first task was drawing a still life picture of some carnations and complimentary cloths.

## SEEING THE REAL MADONNA OF THE PINKS WORKING WITH REAL ARTISTS

- We found it quite difficult to draw the creases in the material as well as the flowers.
- We used this drawing as inspiration for our own imaginative painting.

# ALL OF IT! PAINTING ON BOARDS

Because the Madonna of the Pinks is a portrait of two people – mother and child – we were given the opportunity to draw a real life mother and baby – [names removed] modelled for us.

#### MAKING THE SCULPTURES

#### LEARNING ABOUT THE HISTORY OF THE MADONNA OF THE PINKS.

We didn't use pencil this time. We drew with Conte Crayons or pastels onto special paper which really bumpy (textured).

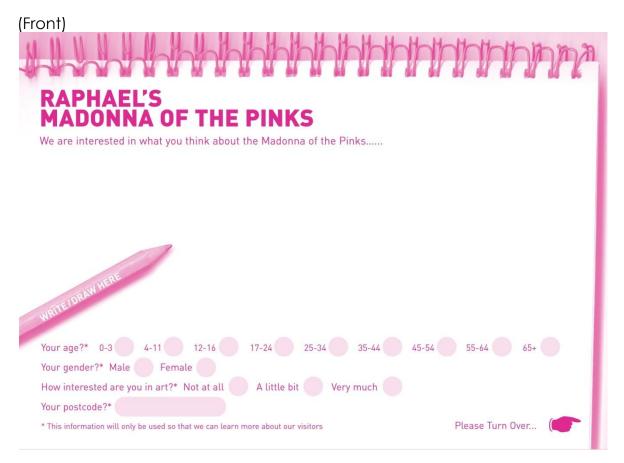
#### ALL OF IT!

### **Appendix C**

### Research tools

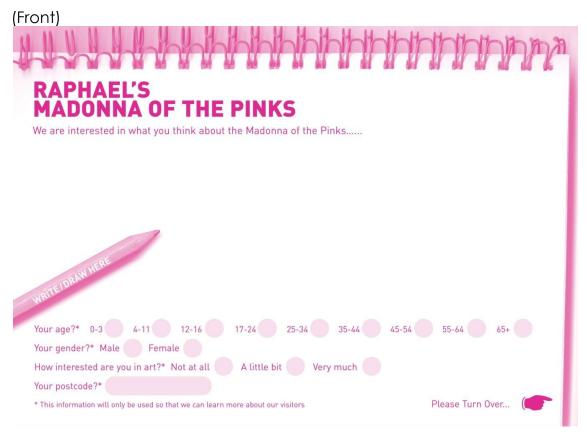
- C1 Response card for adults used at the Bowes Museum
- C2 Response card for adults used in the gallery at the National Gallery, October half-term 2005
- C3 Response card for children used in the gallery at the National Gallery, October half-term 2005
- C4 Response card for adults used at the Family workshops at the National Gallery, October half-term 2005
- C5 Response card for children used at the Family workshops at the National Gallery, October half-term 2005
- C6 Questionnaire for participants in Teenage workshops at the National Gallery, London, October half-term 2005

### C1. Response card for adults used at the Bowes Museum



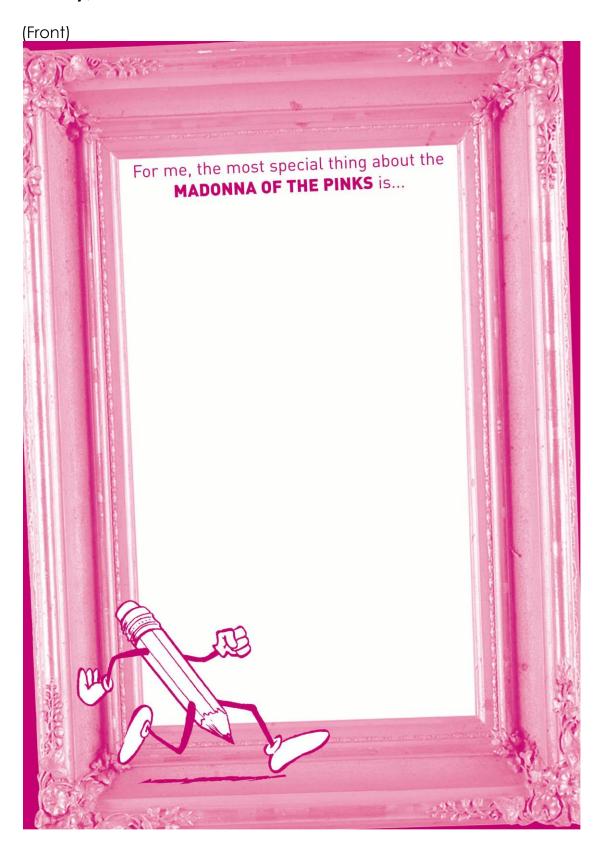


# C2. Response card for adults used in the gallery at the National Gallery, October half-term 2005



(Back)	
Are you willing to be contacted by a researcher to give us more information?	Yes  No  If yes, please can you give us the following details so that we can contact you:  Name  Telephone  Email  Thank you very much! Your comments will help us to understand better how people feel about the paintings in our collections.  RCMG  Research Centre for Museums and Galleries  University of Leicester

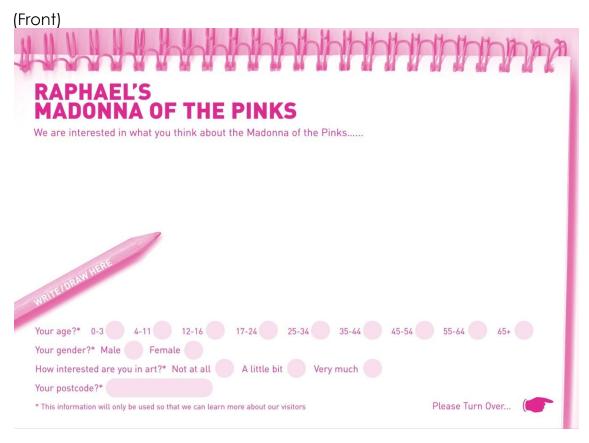
# C3. Response card for children used in the gallery at the National Gallery, October half-term 2005 $^{\rm 9}$



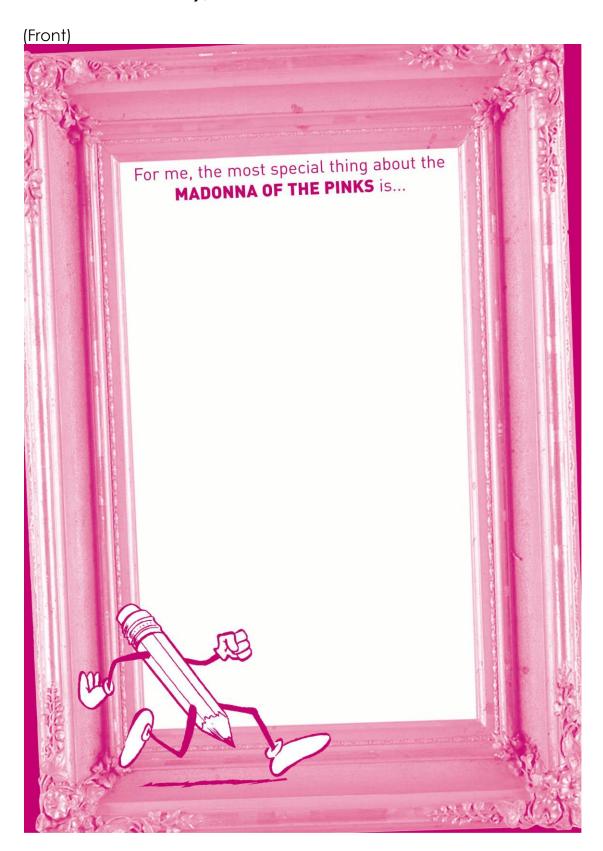
<sup>&</sup>lt;sup>9</sup> With slight modifications, this response card was also used with the pupils of Middleton-in-Teesdale Primary School
384



# C4. Response card for adults used at the Family workshops at the National Gallery, October half-term 2005



# C5. Response card for children used at the Family workshops at the National Gallery, October half-term 2005





# C6 Questionnaire for participants in Teenage workshops at the National Gallery, London, October half-term 2005

### We'd like to hear about your experiences today....

Have you learnt any facts about the Madonna of the Pinks today?  Yes  No				
Please tell us what				
Do you understand the painting be	tter now thar	-	?	
Please tell us how		Yes 🗆 No 🗆		
Have you learnt any new skills toda			)	
Yes □ No □				
Please tell us what				
What difference has coming here t	oday made i	to you?		
			)	
Do you visit art galleries?	Often □	Sometimes □		
- -	Never □			
Do you visit the National Gallery?	Often □ Never □	Sometimes		

How interested are you in art?	Interested   V. Interested   Extremely Interested			
Do you do art in school?	Yes □ No □			
Do you do art out of school?	Yes □ No □			
Is your family interested in the arts?	Yes □ No □			
If so tell us how				
Name:				
Address and Home Ph. No.:				
Age: Gender:	Male Female			
Ethnicity: White  Chinese	Mixed   Black or Black British   Asian or Asian British			
Name and Address of School:				
Are you willing to be contacted by a researcher to give us more information? (We would contact your parents first for their permission)				
Yes □ No □				
Thank you very much! Your comments will help us to understand better how people feel about the paintings in our collections.				
You can find out about us at <a href="http://www.le.ac.uk/ms/rcmg/rcmg.htm">http://www.le.ac.uk/ms/rcmg/rcmg.htm</a>				
RCMG Research Centre for Museums and Galleries  Universit Leice	ty of ster			

### **Appendix D**

### Coding tree for the QSR N6 analysis

