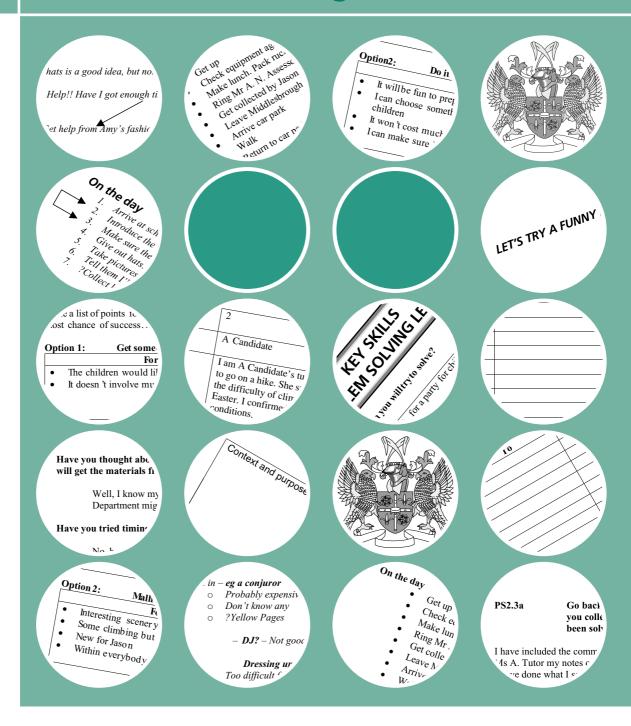
2004

# **Example portfolio**

Level 2

# **Problem solving**









#### First published in 2004

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# **Contents**

Foreword	iii
Overview	v
Commentary	vi
Portfolio	1
Task 1	
Assessment checklist	1
Location of evidence	1
Location of additional evidence	2
Assessment record PS2.1	3
Assessment record PS2.2	4
Assessment record PS2.3	5
Candidate's evidence	6–15
Task 2	
Assessment record PS2.1	16
Assessment record PS2.2	17
Assessment record PS2.3	18
Candidate's evidence	19–27

# **Foreword**

Key skills are for everyone, from learners in the workplace, colleges and schools to chief executives in large companies. They are the skills most commonly needed for success in education, training, work and life in general.

The six key skills are:

- application of number
- communication
- improving own learning and performance
- information and communication technology
- problem solving
- working with others.

In developing key skills, people improve the quality of their learning as well as their performance in the world of work.

When QCA completed its review of the key skills qualifications and units, it was clear that there was a need for examples of key skills portfolios. We produced example portfolios in application of number, communication and information technology earlier in 2004. We have now produced example portfolios for improving own learning and performance, problem solving and working with others at levels 1 to 3.

The example portfolios provide practical guidance on organising and referencing portfolio evidence, and on the kind and amount of evidence required. They are intended, along with the 2004 key skills standards and guidance, to help assessors interpret the key skills. They are based on the 2004 key skills standards and guidance and show real work from real candidates. Their production is supported by the key skills awarding bodies.

Ken Boston AO

Chief Executive, QCA

# **Overview**

The key skills awarding bodies and the regulatory authorities (QCA, ACCAC and CCEA) have produced this example portfolio as a result of a collaborative project. The purpose of the project was to produce a set of portfolios that would give practitioners a clear understanding of the requirements for key skills portfolios.

Portfolios for each of the key skills of application of number, communication and information technology were published earlier in 2004. There are now portfolios for each of the other key skills:

- improving own learning and performance, levels 1 to 3
- problem solving, levels 1 to 3
- working with others, levels 1 to 3.

The project group selected a range of learning and vocational contexts to show the application of skills across these nine portfolios. While a specific context may not be directly relevant to all sectors, the principles of approach, recording and assessment apply, and should prove useful to all.

Key skills chief moderators and external verifiers for the awarding bodies have met and scrutinised the portfolios. They agree that the portfolios meet the specifications for the key skills qualifications. QCA chaired and facilitated the meetings.

These portfolios went through an internal assessment by a centre and then an external verification/moderation process by the centre's awarding body. Each of them met the standard and received a pass. They should be viewed as such, not as perfect examples of work.

You will see that improvements could be made to the portfolios. For example, evidence could be more effectively or logically presented. However, room for improvement is to be expected: candidates develop skills over time, reflecting and progressing as they do so. Key skills are free-standing qualifications open to everyone at any age. This means that portfolios of evidence are created in a range of academic, occupational and vocational contexts.

Also included in the portfolios are:

- record sheets that make the feedback and assessment decisions clear
- commentaries that outline some of the issues and describe the context in which the candidates gathered the evidence.

Some of these portfolios have been created from more than one portfolio. Some have been reworked to avoid 'benefit of the doubt' situations. The record sheets have been rewritten to make decisions clearer to the reader. During the copying process, some loss of clarity may have occurred, especially in images that were originally in colour.

These example portfolios should be read with reference to the 2004 key skills standards and guidance, which provides advice and guidance on the assessment of key skills. It should also be noted that, while a portfolio may meet the standard for a specific key skill, it might not reflect the equivalent standard in another key skill.

QCA and the key skills chief moderators and external verifiers would like to acknowledge the valuable contribution of centres and students in the production of these materials.

# **Commentary**

This level 2 portfolio meets all the requirements of the standards at level 2.

The candidate was following a GNVQ programme in health and social care at a further education college, and was also completing an additional course in sports studies. The two problems were chosen from these two areas, and were assessed by two different assessors. The health and social care assessor was the candidate's main assessor, and has completed the summative documentation.

For each of the two problems there are three sheets entitled 'Assessment record', in which the two different assessors confirm with explanatory comments that the candidate has met all the level 2 criteria.

There is also an assessor statement for each problem, which adds further details of how the standards have been met. Both assessors also asked additional questions to probe the candidate's understanding further.

It should be noted that this candidate demonstrates an unusually high level of written communication.

#### PS 2.1

The main evidence consists of two assessor statements and two candidate statements. The candidate statements, referred to as 'evidence sheets', are word-processed, and were written in response to prompts provided by the awarding body. The evidence is supplemented in part by a witness statement from the candidate's work placement supervisor, and product evidence consisting of preparatory notes written by the candidate.

#### PS 2.2

The main evidence consists of two assessor statements and the evidence sheets referred to above. Further evidence is provided by witness comments from the work placement supervisor and from peers. There is also a range of product evidence to support the above.

#### PS 2.3

The main evidence consists of two assessor statements and the evidence sheets. As with 2.3, these are backed up by witness comments and product evidence.

The portfolio contains more items than are strictly necessary, since some product evidence has been included. The assessment records cover all the criteria, as do the candidate's personal statements. However, it is good practice to include such things as the witness testimony and the equipment list and map, which arose naturally out of the candidate's activity.

# PROBLEM SOLVING LEVEL 2 ASSESSMENT CHECKLIST

You must: PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.	PS2.2 Plan and try out at least one way of solving the problem.	PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.
Your evidence must show you can: 2.1.1 Provide information to help identify a problem, accurately describing its main features	2.2.1 Confirm with an appropriate person how you will try to solve the problem	2.3.1 Check if the problem has been solved by accurately using the methods you have been given
<ul><li>2.1.2 identify how you will know the problem has been solved</li><li>2.1.3 come up with different ways of tackling the problem.</li></ul>	plan what you need to do, identifying the methods and resources you will use  2.2.3  use your plan effectively, getting support and revising your plan when needed to help tackle the problem.	2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem 2.3.3 identify ways of improving your problem solving skills.

# **LOCATION OF EVIDENCE**

Page	List items of evidence and where they are located in the portfolio	F	PS2.	1	F	PS2.	2	F	PS2.	3
		1	2	3	1	2	3	1	2	3
3–5	Assessment record for problem 1	х	х	х	х	х	х	х	х	х
6	Assessor observation	х			х					х
7–9	Evidence sheets	х	х	х	х	х	х	х	х	х
10	Witness statement	х			х			х		
11	Comments from children						х	х		
12	Additional questions					х	х			
13–15	Rough notes	х			х	х	х			
16–18	Assessment record for problem 2	х	х	х	х	х	х	х	х	х
19	Assessor statement	х	х	х	х	х	х	х		
20–22	Evidence sheets	х	х	х	х	х	х	х	х	х
23	Equipment list					х				
24	Route card and peer comments					х	х		х	х
25	Additional questions						х		х	х

# PROBLEM SOLVING LEVEL 2 LOCATION OF ADDITIONAL EVIDENCE

Page	List items of evidence and where they are located in the portfolio	-		PS2.2			PS2.3			
		1	2	3	1	2	3	1	2	3
26	Map showing route					х				
27	Photo									

Assessor Declaration: I confirm that the details above are correct and that the evidence submitted is the candidate's own work and the candidate meets all the requirements for certification of this key skill.

Candidate Name: 4 Goddok

Candidate Signature:

Date: 16-05-03

Date: 16-05-03

### You must:

PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.1.2 identify how you will know the problem has been solved; and
- **2.1.3** come up with different ways of tackling the problem.

# ASSESSMENT RECORD PROBLEM SOLVING LEVEL 2

PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.

Subject and purpose:		Supplemen	tary evidence (if included):
Task 1: To fill a half hour gap ir entertainment for a party for c with physical disabilities.			
Did the candidate	(tie	:k) 	Comments and examples
Provide information to help identify the problem, accurately describing its main features?	Yes	No	For problem 1 A Candidate formulated the problem succinctly with some prompting, and contributed usefully to the initial discussion.
Did the candidate	(tie	:k)	Comments and examples
Identify how they would know the problem had been solved?	Yes	No	In both problems the evidence clearly shows that A Candidate has identified the conditions for success accurately.
Did the candidate	(tie	:k)	Comments and examples
Come up with different ways of tackling the problem?	Yes	No	She identified two possible ways of tackling the problem.
Assessor Name: A.N. ASSES	to P	Candidate Na	me: A Gudidote
Assessor Name:   Assessor Signature:   Assessor Signature:		Candidate Sid	gnature: Alandidato
Date: 16:05:03		Date: 16-0	s. 13

#### You must:

**PS2.2** Plan and try out at least one way of solving the problem.

# Your evidence must show you can:

- 2.2.1 Confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use; and
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem.

# ASSESSMENT RECORD PROBLEM SOLVING LEVEL 2

PS2.2 Plan and try out at least one way of solving the problem.

#### Subject and purpose:

Task 1: To fill a half hour gap in the entertainment for a party for children with physical disabilities.

### Supplementary evidence (if included):

Work product and witness testimony from the children.

with physical disabilities.	muren	the children	1.
Did the candidate  Confirm with an appropriate person how they would try to solve the problem?	Yes	No	Comments and examples  A Candidate confirmed with me, her Health and Social Care tutor, how she would tackle the problem.
Did the candidate  Plan what they would need to do, identifying the methods and resources they would use?	Yes	No	Comments and examples  Planning sheets are included. They show a methodical approach. A little extra probing was needed about the supply of materials.
Did the candidate  Use their plan effectively, getting support and revising their plan when needed to help tackle the problem?	Yes (t	no	Comments and examples  A Candidate worked through her plan, and modified it as required. She sought a little help both from me and from Ms A. Teacher at Eagle School.
			Eagle School.
/ Newson			16 44 4

#### You must:

PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

## Your evidence must show you can:

- 2.3.1 Check if the problem has been solved by accurately using the methods you have been given; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- 2.3.3 identify ways of improving your problem solving skills.

## **ASSESSMENT RECORD PROBLEM SOLVING LEVEL 2**

PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

#### Subject and purpose: Supplementary evidence: Task 1: To fill a half hour gap in the Work product and witness testimony from entertainment for a party for children the children. with physical disabilities. Did the candidate... (tick) **/**

## Comments and examples Check if the problem had In discussion with me, A Candidate been solved by accurately was able to identify the extent to No using methods that they which she had succeeded in were given? solving the problems. Did the candidate... (tick) **Comments and examples √** Describe clearly the results, A Candidate needed some including the strengths and prompting to identify her strengths weaknesses of how they and weaknesses, especially to tackled the problem? consider the process of problem solving rather than the specific problem. Did the candidate... (tick) Comments and examples **/** Identify ways of improving Again A Candidate's evidence their problem solving skills? clearly shows that she has Nο identified possible ways forward. Candidate Name: A. Candidate

Assessor Name: 4 A A SESSOR
Assessor Signature: 4 A A A SESSOR Candidate Signature: 4 Landidate Date: 16-05-03 Date: 16-05.03

### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- **PS2.2** Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- **2.3.3** identify ways of improving your problem solving skills.

Key skills	: Assessor observation	of performance
Key skill and level:	Robben Sling tre/ 2	
Candidate name:	A Candidar	
Candidate number:	123456	
of her course so children with ph The purpose of he the entertainment A-Candidate is	erking towards a GNVA in the te has been working at Eagle upical disabilities. I problem solving exercise was t for a dulctren's spring ha also following an outcloor y. She used this as the conten	School, a local school for to fill a half hour gap in pliday party.  pursuits course as on
with two different teacher at Eagle planning her ente	ssed her ideas for entertainm t ideas (see page 1). She discuss (chool, and made a final decis retainment, and regulated with the their students. In the end nothing	sed them further with the 15 n. I observed Alandidate the Fashish Department for
dish of personali implement them the children st. I believe that A Candidate ho	ties, but A landidate modified in the result was a succession that they enjoyed it. as a result of how will learn to some important &	her plans, and worked hard to s, bud the comments by rork on both problems, was about how the appeals public
Signed (Candidate):	A.Candidate	Date: 4-05-03

Page 6

as evidence of achievement of the standards.

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- **P52.2** Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.1.2 identify how you will know the problem has been solved; and
- 2.1.3 come up with different ways of tackling the problem; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use; and
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.1 check if the problem has been solved by accurately using the methods you have been given; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- **2.3.3** identify ways of improving your problem solving skills.

# KEY SKILLS PROBLEM SOLVING LEVEL 2

#### PS2.1a What is the problem you will try to solve?

To fill a half hour gap in the entertainment for a party for children with physical disabilities.

#### PS2.1b What are the main features of the problem?

- The children aren't very mobile.
- I have a limited budget
- My party must be fitted in to 30 minutes.

#### PS2.1c How will you show that you have solved the problem?

- I will ask the children's class teacher to say whether she thought it worked, and I will ask her to find out from the children whether they enjoyed it. (That way I'll get a more honest answer than if I ask them.)
- I will keep my notes and anything else that I do.
- I will get a statement from Ms A. Teacher.
- My tutor, Ms A. Tutor, will be observing me, and will write an observation.
- I will make sure I keep within my budget and keep to time.
- I will get someone to take photos of the event.

#### PS2.1d Think of at least two different ways of solving the problem.

- Get an entertainer in, eg a conjurer
- Do it myself, eg organise a talent competition

Make a list of points for and against each option, and decide which one is the most realistic, or has the most chance of success. Indicate any help you received.

#### Option 1: Get someone in, eg hire a conjurer

For		Against
The children would like a magic show	•	It might be too expensive
It doesn't involve much work by me	•	It might go on too long, and I can't control it
	•	The conjurer might upset the children

#### Option2: Do it myself

Option2. Do it mysen						
For	Against					
It will be fun to prepare	I'll have to decide what to do					
<ul> <li>I can choose something suitable for the</li> </ul>	The children might not like it					
children	A bit of a risk					
It won't cost much						
I can make sure it fits in the time						

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- **PS2.2** Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.1.2 identify how you will know the problem has been solved; and
- 2.1.3 come up with different ways of tackling the problem; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use; and
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.1 check if the problem has been solved by accurately using the methods you have been given; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- **2.3.3** identify ways of improving your problem solving skills.

# PS2.2a Having decided which option to try out, write down your detailed plans for completing it.

I decided that I would organise the entertainment for myself, mainly because of the cost. I had a few ideas of what I might try (see rough notes), but in the end I decided a funny hat parade would be best, even though it was a bit of a risk, because I haven't done anything like it before. See also the Witness statement on page 10.

- Go to the fashion class and ask them to help me.
- Organise making the hats: there are 6 children, and I want them to have 2 hats each to choose from, so 12 hats
- Plan what I will say to introduce the hat parade.
- Check with Ms A. Teacher that there will be enough carers for one to each child.
- Arrange to borrow digital camera.
- Take all the stuff to the party camera, hats, notes on how I'm going to introduce it.
- Decide which hats each child can choose from.
- Take photos
- Tell the children how nice they all looked, and promise to come back with the photos.
- Print photos.
- Go back next week and talk about the parade with the children.

# PS2.2b Follow your plan, making any changes necessary. Make sure to collect the evidence you decided you would need.

I had to limit the number of hats to 6 instead of 12, because of time.

The department camera was being used by someone else, and so my tutor, Ms A. Tutor, had to borrow one from Art and Design.

#### PS2.2c Indicate any support you used.

The children's class teacher, Ms A. Teacher, helped me. I had a talk with her to begin with, and she said that I should allow about 30 minutes for my part.

After I had thought about it, I discussed with her the two ideas that I had. She thought that the magic show was quite OK, but told me that she had had a conjurer two years ago, and he didn't seem to understand what the children would be like. She was worried that the same thing might happen again. She thought hats would be good, but she said it shouldn't be a competition, because then no one would lose. So we changed it to a hat parade.

I went to our fashion teacher and asked her if she thought her students would help. She said I could come to one of the classes and ask them.

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- **PS2.2** Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.1.2 identify how you will know the problem has been solved; and
- 2.1.3 come up with different ways of tackling the problem; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use; and
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.1 check if the problem has been solved by accurately using the methods you have been given; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- **2.3.3** identify ways of improving your problem solving skills.

# PS2.3a Go back to PS2.1b and c. Have you answered all the questions you asked? Have you collected all the evidence of success that you indicated? Has the problem been solved?

I have included the comments from the children, a statement by Ms A. Teacher, an observation by Ms A. Tutor my notes on what I said to introduce the hat parade and some photos of the children. I have done what I set out to do, but it didn't work out as well as I'd hoped. I had to make all the hats myself, because no one helped me. I think I solved the problem, but I could have done it better.

- The children didn't all like the hats I'd chosen for them. Maybe I should have let them have more choice instead of me saying which ones they could have.
- The good things were that I kept within my budget and kept to time (more or less!).
- Also the children enjoyed it (see their comments).
- The children were disappointed that they couldn't see the pictures of themselves in the hats straight away. We couldn't afford a Polaroid camera, and used the one of the college digital cameras. If I'd told the children at the start that the pictures would not be ready straightaway, it would have been better. In fact I could have made it more fun, by saying that we'd have another day when we'd look at the photos, and they could draw pictures of themselves. (The last part was Ms A. Teacher's idea.)
- The fashion students weren't much help and in the end I had to make all the hats myself. So because of the time I could only make 6 hats. I think it might be because I'm a bit bossy, and told them what sort of hats I wanted, instead of letting them just make them.

#### PS2.3b How could you improve your problem solving skills?

I always think other people won't do things the way I want them done. I try to go straight into the work without spending enough time thinking about possible difficulties.

#### WHAT TO DO DIFFERENTLY NEXT TIME:

- I will try not to be so bossy.
- I will think things through more, and maybe get other people (eg in this case my tutor and Ms A. Teacher) to look at my plans at different stages.

ANA (Health and 30.04.03 Social (Ove)

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- **PS2.2** Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.3.1 check if the problem has been solved by accurately using the methods you have been given.



# **Eagle School**

7 May 2003

#### Witness statement for A Candidate

A Candidate has been working at our school one day a week during the current year. As part of our spring holiday celebrations we held a party for the children of year 4, who all have a physical disability. A Candidate volunteered to organise an event. She brought forward two ideas, and after discussion we agreed that she would organise a Funny Hat Parade.

She independently worked out the details of the event, and planned it to fit into the time available (30 minutes). She is always sensitive to the needs of our children and helped them in an appropriate way on the day.

The Funny Hat Parade worked quite well, and the children have often talked about it since. Unfortunately A Candidate was only able to make six hats, and took the decision to allocate them arbitrarily to the children. This caused a little friction and, as I have discussed with her, it might have been better to introduce an element of choice.

Overall, A Candidate is an asset to the school, and I believe she will make a good teacher.

A. Teacher

Class Teacher

### You must:

- **P52.2** Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.2.3 Use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.1 check if the problem has been solved by accurately using the methods you have been given.



# **Eagle School**

9 May 2003

Some reactions from the pupils of my class to the Funny Hat Parade:

- "I thought the hats looked really cool."
- "It was fun seeing what everybody else looked like, but I wished we could have had more hats to choose from."
- "I wish it could have gone on longer."
- "My hat was OK, but I wanted to try Gemma's."
- "A Candidate was brilliant."

A. Teacher

Class Teacher

#### You must:

**PS2.2** Plan and try out at least one way of solving the problem.

# Your evidence must show you can:

- 2.2.2 Plan what you need to do, identifying the methods and resources you will use; and
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem.

## **Additional questions**

Have you thought about the resources you will need to make hats – for instance, where you will get the materials from, and how much that may cost?

Well, I know my Mam has a lot of stuff in the loft. I can look through that. The Fashion Department might have some bits they don't want.

Have you tried timing how long it takes to make a hat?

No, but I suppose it won't take that long.

It's getting quite close to the date you agreed now. Are you confident that you can complete all your plans in time?

I wish now that I'd thought it through a bit better. Maybe the best thing would be to cut down the number of hats to just one each. I think I can manage that OK.

Signatures:

Alandidate ANA (Health and Social (are)

Candidate Assessor Date: 17.03

Date: 17/03/20

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- **P52.2** Plan and try out at least one way of solving the problem.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use.

Rough Notes 17/03/03 Spring holiddy entertdinment at Eagle School. I've got 30 minutes : what shall I do ? Ideas : · Get someone in · eg a conjurer · 1 do it - Dressing up? . Too difficult for Gemma and Tony. Hats? · Prizes (Not-too expensive) \* Funniest Ismartest pooler / most colourful. LET'S TRY A FUNNY HAT COMBETITION

#### You must:

**PS2.2** Plan and try out at least one way of solving the problem.

# Your evidence must show you can:

- 2.2.2 Plan what you need to do, identifying the methods and resources you will use; and
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem.

19/03/03

Spoke to Ms. A Teacher. She thinks hats is a good idea, but not to make a competition. She suggested we can do it on Tuesday 29 April-

Help!! Have I got enough time?

Get help from Amy's fashion class

BEFORE

- 1. Collect materials and stuff for hots
- 2. Get 12 hats made
- 3. Collect hots
- 4 . Plan what I'm going to say to introduce it

on the day

- 1. Arrive at school at normal time (Ramante to bring hat, my speech, camera).
- ➤ 2. Introduce the Holiday Hat Aarade.
  - 3. Make sure there is a helper for each duild.
  - 4. Give out hots.
  - 5. Take pictures
  - 6. Tell them I'll come back with the photos (Remember to say how cool they all looked).
  - 7. ? Collect nots or let them keep them?

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- **P52.2** Plan and try out at least one way of solving the problem.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use.

24/04/03

# Introduction (2 minutes maximum)

Hello Michele, Eve, Abdul, Gemmo, Tony, Andreas
I've bought some hols for you to wear in our Holiday Hat
Parade-They're really cool, and there's one for each of you.
We'll try them on and then I'm going to take photos of you
all, so that you can see what you look like.

#### You must:

PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.1.2 identify how you will know the problem has been solved; and
- **2.1.3** come up with different ways of tackling the problem.

# ASSESSMENT RECORD PROBLEM SOLVING LEVEL 2

PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.

# Subject and purpose: Supplementary evidence (if included): Task 2: To organise a successful day's hiking over the Easter holiday within the limits of safety, fitness and our budget. (tick) Did the candidate... **Comments and examples** Provide information to help I discussed the proposal with identify the problem, A Candidate, who was able to No accurately describing its main identify what she wanted to do. features? Did the candidate... (tick) **Comments and examples /** Identify how they would The evidence clearly shows that know the problem had been A Candidate has identified the solved? conditions for success accurately. Did the candidate... (tick) **Comments and examples** Come up with different ways She actually came up with three of tackling the problem? No ways of tackling the problem. Assessor Name: A. N. Assessor Candidate Name: A Good dok Candidate Signature A Good dok Assessor Signature: 16-05-03

#### You must:

PS2.2 Plan and try out at least one way of solving the problem.

## Your evidence must show you can:

- 2.2.1 Confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use;

methods and resources they

Did the candidate...

Use their plan effectively,

getting support and revising

their plan when needed to

help tackle the problem?

would use?

2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem.

# **ASSESSMENT RECORD**

#### **PROBLEM SOLVING LEVEL 2** PS2.2 Plan and try out at least one way of solving the problem. Subject and purpose: Supplementary evidence (if included): Task 2: To organise a successful day's hiking Map and photos. over the Easter holiday within the limits of safety, fitness and our budget. Did the candidate... (tick) Comments and examples **/** Confirm with an appropriate A Candidate discussed with me person how they would try her various plans for tackling the problem. We agreed that the to solve the problem? Malham hike would be most suitable for everyone, given the circumstances. Did the candidate... (tick) Comments and examples Plan what they would need I confirm that I assisted A to do, identifying the Candidate in the discussions about

(tick)

Nο

Candidate Name: 4 Gudidate
Candidate Signature: 4 Gudidate Assessor Name: A N Assessor Assessor Signature: ANASCRE-16.05.03 Date: 16-05-03 Date:

the hike, and checked the group's

**Comments and examples** 

equipment before departure.

Pages 6-13

Pages 17-20

Pages 22, 23 and 25

#### You must:

PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.3.1 Check if the problem has been solved by accurately using the methods you have been given; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- **2.3.3** identify ways of improving your problem solving skills.

# ASSESSMENT RECORD PROBLEM SOLVING LEVEL 2

#### PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills. Supplementary evidence (if included): Subject and purpose: Task 2: To organise a successful day's hiking Map and photos. over the Easter holiday within the limits of safety, fitness and our budget. (tick) Did the candidate... **Comments and examples** Check if the problem had been solved by accurately A Candidate referred back to her initial evidence sheets, which No using methods that they showed that the problem had were given? been solved with moderate success. Did the candidate... (tick) **Comments and examples** Describe clearly the results, The evidence from the two including the strengths and problems shows that A Candidate's weaknesses of how they awareness of problem solving has tackled the problem? grown, even from problem 1 to problem 2. Did the candidate... (tick) **Comments and examples /** Identify ways of improving I agree with the Health and Social their problem solving skills? Care tutor that A Candidate has demonstrated a real growth over the last few months.

Assessor Name: A N ASSESS OF	Candidate Name: 1. Gndidok
Assessor Signature:	Candidate Signature: 4- Gardidale
Date: 16 05 03	Date: 16-05-03

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- **PS2.2** Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.1.2 identify how you will know the problem has been solved; and
- 2.1.3 come up with different ways of tackling the problem; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use; and
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.1 check if the problem has been solved by accurately using the methods you have been given.

### **KEY SKILLS: ASSESSOR STATEMENT**

UNIT	Problem solving				
LEVEL	2				
CANDIDATE	A Candidate				
	I am A Candidate's tutor for outdoor puto go on a hike. She suggested three alte the difficulty of climbing Helvellyn, an Easter. I confirmed her choice of Malha conditions.	ernative routes, and the possible w	and asked my opinion on veather conditions over		
	I offered her advice on suitable equipm route card. When she had completed it, agreed to be her contact for emergencie that she could bring to show that the ev the main purpose was to show that she	I checked that i es. We discussed ent had happene	t was suitable. I also I the sort of evidence ed, but I assured her that		
	The options that she considered were appropriate. Her plann that she was aware of the main features of the problem. The showed that she carried out her plans with reasonable success				
	I checked her awareness of problem solving in general through additional questions.				
ASSESSOR SIGNATURE:	A ANTHOSCOBOL (Sports Studies)	DATE:	28 - 04 - 03		
CANDIDATE SIGNATURE:	A Candidate	DATE:	28.04.03		

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- PS2.2 Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

## Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.1.2 identify how you will know the problem has been solved; and
- 2.1.3 come up with different ways of tackling the problem; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use;
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.1 check if the problem has been solved by accurately using the methods you have been given; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- 2.3.3 identify ways of improving your problem solving skills.

### **KEY SKILLS PROBLEM SOLVING LEVEL 2**

#### PS2.1a What is the problem you will try to solve?

To organise a successful day's hiking over the Easter holiday within the limits of safety, fitness and our

#### PS2.1b What are the main features of the problem?

Who?

Where to go? - cost, scenery, difficulty How long will we be out for? What clothing and equipment do we need?

#### PS2.1c How will you show that you have solved the problem?

I will take photos of us on the walk.

I will get Keith and Jason to sign to say that I did it.

I will ask Mr A. N. Assessor (Sports Studies) to write something about how he helped me. We will have the notes of our discussion, with a map and the route plan and an equipment list.

I'll get Keith and Jason to say what they enjoyed and didn't like (if anything).

#### PS2.1d Think of at least two different ways of solving the problem.

Different choices for where to go:

- Go somewhere familiar and cheap, eg the cliff top path at Saltburn
- Go somewhere that one of us knows well, eg Malham Cove
- 2. 3. Go somewhere new and challenging, eg Helvellyn

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- **P52.2** Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.1.2 identify how you will know the problem has been solved; and
- 2.1.3 come up with different ways of tackling the problem; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use; and
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.1 check if the problem has been solved by accurately using the methods you have been given; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- **2.3.3** identify ways of improving your problem solving skills.

Make a list of points for and against each option, and decide which one is the most realistic, or has the most chance of success. Indicate any help you received.

#### Option 1: Cliff top path at Saltburn

option 1: emi top patit at Sattsuin						
For	Against					
Close and easy to get to	Not a circular					
Easy walking	Nothing new for any of us					
Don't need to buy a map	Boring!					
	-					

#### Option 2: Malham Cove

option 2. Manham Cove			
For	Against		
Interesting scenery	<ul> <li>Need to think about transport</li> </ul>		
Some climbing but not too much	<ul> <li>Don't have a map of the area, and can't</li> </ul>		
New for Jason	afford to buy one		
Within everybody's capacity	<ul> <li>Keith has done it loads of times</li> </ul>		

#### Option 3: Helvellyn

For	Against
Superb scenery	Long way to travel, so expensive
Interesting climb	Weather unpredictable
<ul> <li>None of us has done it before</li> </ul>	<ul> <li>Don't have a map of the area, and can't</li> </ul>
	afford to buy one
	Quite difficult for me

- We had a discussion about where to go. I suggested the three ideas (new and challenging, old and cheap or in between).
- Keith said he couldn't be sure about his ankle, because if the weather is cold the pin from his accident is painful, and the climbing was difficult. (We need to ask Mr A. N. Assessor (Sports Studies) how difficult he thinks it would be.)
- Keith suggested we could ask Mr A. N. Assessor (Sports Studies) to lend us a map.
- I said that I'm not very fit still after my glandular fever.
- Jason said his Mam might lend us her car if we chose the right day. I asked him to work out how
  much we should each chip in for the petrol.
- We all agreed that Saltburn would be quite boring.
- We went to see Mr A. N. Assessor (Sports Studies). He said he would lend us a map, but he thought Helvellyn was quite difficult, and that the weather could be still quite severe in April.
- I suggested that we should go to Malham, because of the things we discussed, so long as Keith didn't mind doing it again. He said it was OK, so that's what we agreed.

# PS2.2a Having decided which option to try out, write down your detailed plans for completing it.

#### Before:

- Find out when we can borrow a car, and that will be the day we go.
- Collect all equipment we need (see Equipment list).
- Check our equipment with Mr A. N. Assessor (Sports Studies).
- Give details to Mr A. N. Assessor (Sports Studies) of when we're starting, and our route.

#### You must:

- PS2.1 Identify a problem, with help from an appropriate person, and identify different ways of tackling it.
- PS2.2 Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

## Your evidence must show you can:

- 2.1.1 Provide information to help identify a problem, accurately describing its main features; and
- 2.1.2 identify how you will know the problem has been solved; and
- 2.1.3 come up with different ways of tackling the problem; and
- 2.2.1 confirm with an appropriate person how you will try to solve the problem; and
- 2.2.2 plan what you need to do, identifying the methods and resources you will use;
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.1 check if the problem has been solved by accurately using the methods you have been given; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- 2.3.3 identify ways of improving your problem solving skills.

On	the	day
----	-----	-----

•	Get up	07.30
•	Check equipment again	
•	Make lunch. Pack rucksack	
•	Ring Mr A. N. Assessor (Sports Studies) to say we're off	08.30
•	Get collected by Jason	08.45
•	Leave Middlesbrough	09.00
•	Arrive car park	10.30
•	Walk	
•	Return to car park	15.00
•	Return to Middlesbrough	16.30
•	Ring Mr A. N. Assessor (Sports Studies) to say we're back	16.40

PS2.2b Follow your plan, making any changes necessary. Make sure to collect the evidence you decided you would need.

#### PS2.2c Indicate any support you used.

Before we went, I showed our equipment list to Mr A. N. Assessor (Sports Studies). He said we'd got mostly everything, but suggested I should make a route card. He showed me how to make one, and how to convert grid readings to magnetic readings.

He also said to take a mobile phone in case we needed help.

He said we should leave details with someone of where and when we were going, and he offered to be that person. He reminded me to ring him when we got back!!

PS2.3a Go back to PS2.1b and c. Have you answered all the questions you asked? Have you collected all the evidence of success that you indicated? Has the problem been solved?

The three of us agreed where we would go, and I worked out the route and the times. I made an equipment list for everybody, and packed food. I took some photos. Jason and Keith signed a sheet with the photos on to say that I was there. I've got a copy of the map, and the route card.

I still need to get something written by Mr A. N. Assessor (Sports Studies).

The walk went well. We started at the time I said. But the whole thing took longer than I thought, so we got home late. I had planned to climb up the dry waterfall at the top of the Cove, but when we got there it was too wet, so I suggested we walked round the side. Also I had intended to walk up as far as the tarn, and have our lunch there, but when we got there it was misty and very windy, so I suggested we went on further to find a sheltered spot

#### PS2.3b How could you improve your problem solving skills?

The hike took longer than I'd thought, because Jason spent too long mucking about at the top of the cove, and in the stream at Gordale Scar. So I didn't get home till after 5.30. My Dad was getting a bit worried. I couldn't ring him on the way, because my card had run out.

Signed:

Addresousou (Sports Studies) 1. Candidate

18 04-03 28.04.03

## You must:

**PS2.2** Plan and try out at least one way of solving the problem.

# Your evidence must show you can:

2.2.2 Plan what you need to do, identifying the methods and resources you will use.

# Equipment list for Malham hike

1	Map	Ne
2	Compass	Me
3	Food	Eventaly
5	Water	Everybody
5	Money for car parkland emergencies)	Everybody
6	Sorts	Everybely
7 8 9	Waterproofs	Everypooly
8	Extra warm clothing	Everylatin
9	Spare socies	Exapply
10	hbdly hat	Everybody if theywant
11	Hores	Everybody if they want
12	Swiss Army Keite	HZ .
13	Comes to take photos for evidence	He
12 13 14	Rouse card with timings	Me
15	Mobile phone for emergencies	He

#### You must:

- **P52.2** Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

# Your evidence must show you can:

- 2.2.2 Plan what you need to do, identifying the methods and resources you will use;
- 2.2.3 use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- **2.3.3** identify ways of improving your problem solving skills.

## Route card for Malham hike

Cor Alek	900626	9th from road	902629	38	15
Ash from road	902626	Top of core	896641	326	45
Top of core		Ward of Been Scor	858652	320	25
Top of core	888652	South and of Torn	893662	37	20
Lunch		Contract to the Contract of th		-	30
South and of Ten	893662	Water Sinks Gate	894658	130	6
Work Sinks GOR	194658	Sheet Gate	904657	91	30
Street hate	904657	Top of Godale Scor	916641	141	45
Top of Gordale	916641	Red	914635	192	45
Road	914635	Car park	200626	240	10rd/ Ave :
		\$6 M		1.27	throl time:

"I always like going to Malham, and no had a lot of fun. Maybe A Candidate should have given us a bit more time to nuch about on the clints and grikes" It was windy on the top, but ne're hard men - two of us are anyway."

Keith

Fantaetic Malham Cove is like so cool. I wanted to climb up it but others wouldn't let me. I wish I'd taken more food, but A. Candidate let me have a bit of her sandwich I want to go again."

Fason

### \*Editorial footnote:

Clints and grikes are the components of a limestone pavement. Clints are the horizontal flat tops, and grikes are the vertical crevices between slabs.

#### You must:

- PS2.2 Plan and try out at least one way of solving the problem.
- PS2.3 Check if the problem has been solved and identify ways to improve problem solving skills.

## Your evidence must show you can:

- 2.2.3 Use your plan effectively, getting support and revising your plan when needed to help tackle the problem; and
- 2.3.2 describe clearly the results, including the strengths and weaknesses of how you tackled the problem; and
- 2.3.3 identify ways of improving your problem solving skills.

### Additional questions asked by assessor

Did you have to make any changes to your plan?

We had planned to climo up the dry waterfall at the top of the Gue, but when we got there it was too wet. So I suggested me walked round the side. Also I had intended to walk in its for as the tarn, and windy so I suggested we went on further to find a shellered spot.

Thinking about the walk as a problem solving exercise, rather than an outdoor activities

exercise, what have you learnt about the way you approach problems?

I think I be longed a better that the filter than the first town of the first than the first fir

do their live thing.

Also I could have thought it through better, spent longer planning leg my phone running out).

What would you do differently next time you had to solve a similar problem?

I would take more time to research everything I was going to do, and I mould my to make sure that I involved everybody no much no possible.

I think the wolking part went quite well, but I'm still a but bossy, and waxt everyone to do things my way. I should probably have some more about how people solve problems like using brainstorming

Signatures: flandidate Date: 28.04.03 Candidate

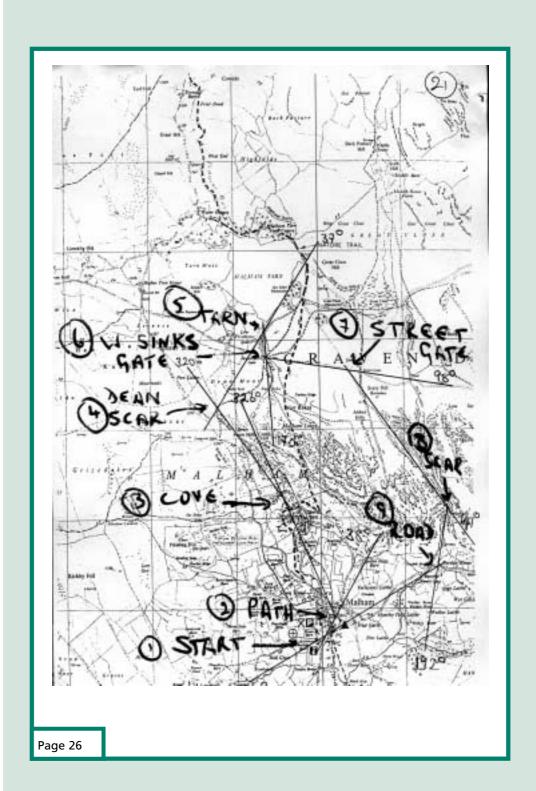
> An Assessor (Sports Studies) Assessor Date: 28 04 03

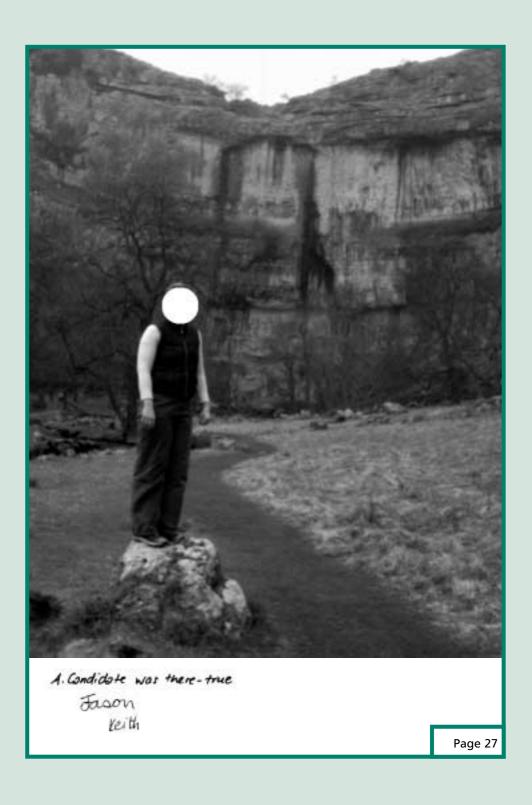
# You must:

**P52.2** Plan and try out at least one way of solving the problem.

# Your evidence must show you can:

2.2.2 Plan what you need to do, identifying the methods and resources you will use.





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Contact	The Key Skills Team (020 7509 5611; keyskills@qca.org.uk)	

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