

### MASTERS FOR PHOTOCOPYING

### **Masters for Photocopying**

Except where indicated, these Masters are designed to produce single-sided, reusable worksheets. Masters for consumable sheets are labelled (c). Masters for double-sided sheets are labelled \*. Masters M25 to M32 should be printed back-to-back to form an 8-page booklet.

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Record sheet (side 1)	t (side 1)		Name		
Cards used (in order)			Where the money goes Use this table to keep track of how much money you have left during your trip.	s rack of how much mor	iey you have left durir
			How much money each person starts with	person starts with	સ
How we travel to Matlock Bath	ock Bath	bus/coach/train			
			What money is spent on	How much is spent	What is left to spend
How we spend our time at Matlock Bath	me at Matlock Bath				
The time when we arrive	ve				
The time(s) when we can leave	an leave				
What we do at Matlock Bath	How long it takes	What the time is after we've done it			
			Total amount spent	ស	
			L		

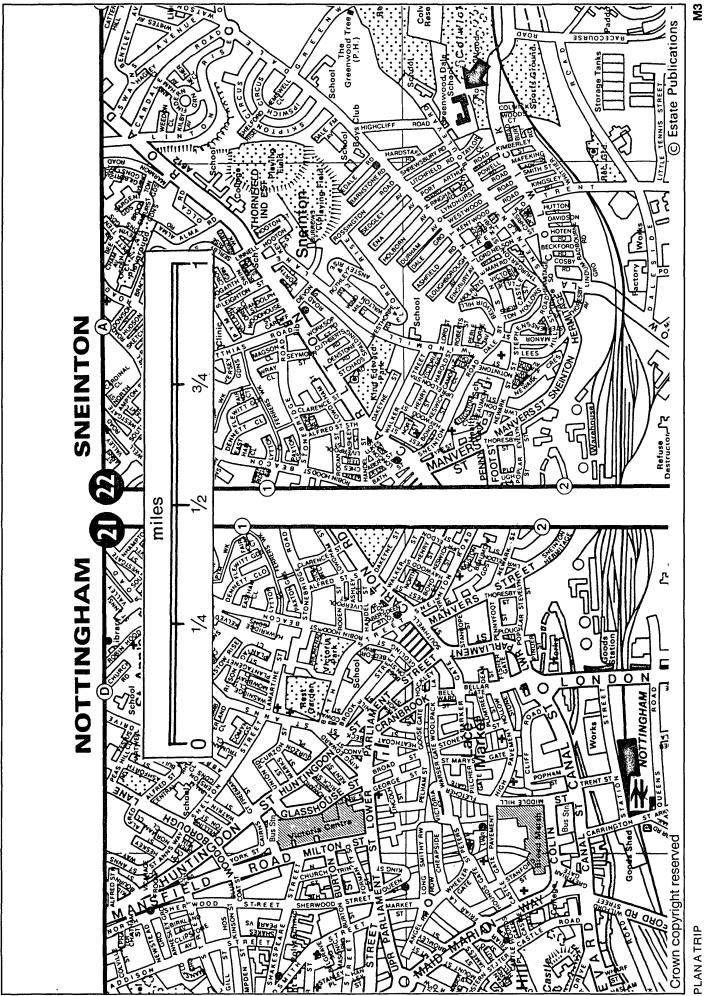
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When you have <i>finished</i> playing the card game, fill in this	card game, fill in this side of the record sheet.
We left Greenwood Dale at	Time What we were doing
We got back at	9.00
We took £ with us and spent £	10-00
So we returned home with £	11.00
Good points about the trip	12.00
	1.00
	2.00
	3.00
	4.00
	5.00
	6.00
Bad points or things that went wrong on the trip	7.00
	8.00
	9.00
	10.00 +
	11.00 +
	12.00

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STAGE 1

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### **Trips I remember**

Filled in by \_\_\_\_\_

### Think of a trip that you really enjoyed.

Where did you go?

Why did you like it?

How could the trip have been made even better?

### Think of a trip that you didn't enjoy so much.

Where did you go?

Why didn't you like it?

.

How could it have been improved?

Where we could go       What to do there       How we could go       Comments         Image: State of the state of t	brainstorming			Name
	Where we could go	What to do there	How we could go	Comments
,				
· · · · · · · · · · · · · · · · · · ·				
· · · · · · ·				
-				

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Possible travel details Rough costs	Ideas leaflet	What you can do there
	Filled in by	
Possible travel details Rough costs	Come on our trip to	
Rough costs		Possible travel details
Rough costs	· · · ·	
		Rough costs
	· · ·	

STAGE 2

### The vote

Six people are planning a trip. Six different places have been suggested.

- a) The ice rink
- b) Zoo
- c) Bowling alley

- d) A castle e) Snooker hall
- f) Swimming pool

In order to choose between these places, they decide to vote.

Each person is given a list, and they write down their preferences.

This is what they write:

### Sanjay

- a) Ice Rink 6th choice
- b) Zoo lst choice
- c) Bowling 3rd choice d) Castle 2nd choice
- e) Snooker 4th choice
- f) Swimming 5th choice

### Mike

- a) Ice Rink 4th choice
- b) ZOO Gth choice
- c) Bowling 5m choice
- d) Castle 3rd choice
- e) Snooker 1st choice f) Swimming 2nd choice

- John
- a) Ice Rink 1st Choice
- b) ZOO 2nd Choice
- c) Bowling 5th Choice
- d) Castle 4th Choice
- e) Snooker 3<sup>rd</sup> Choice
- f) Swimming 6" Choice

### Elaine

- a) Ice Rink 6m choice
- b) Zoo 3rd choice
- c) Bowling 2nd choice
- d) Castle 1st choice
- e) Snooker 4th choice
- f) Swimming 5th choice

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### Claire

- a) Ice Rink 6th choice
- b) ZOO 5th choice
- c) Bowling 1st choice
- d) Castle 2nd choice
- e) Snooker 414 choice
- f) Swimming 3rd choice

### Jenny

- a) Ice Rink 6m choice
- b) ZOO 5m choice
- c) Bowling 4m choice
- d) Castle 2nd choice
- e) Snooker 3rd choice
- f) Swimming 1st choice

Which place would be the best choice for their trip?

Explain how you get your answer:

### Jobs list

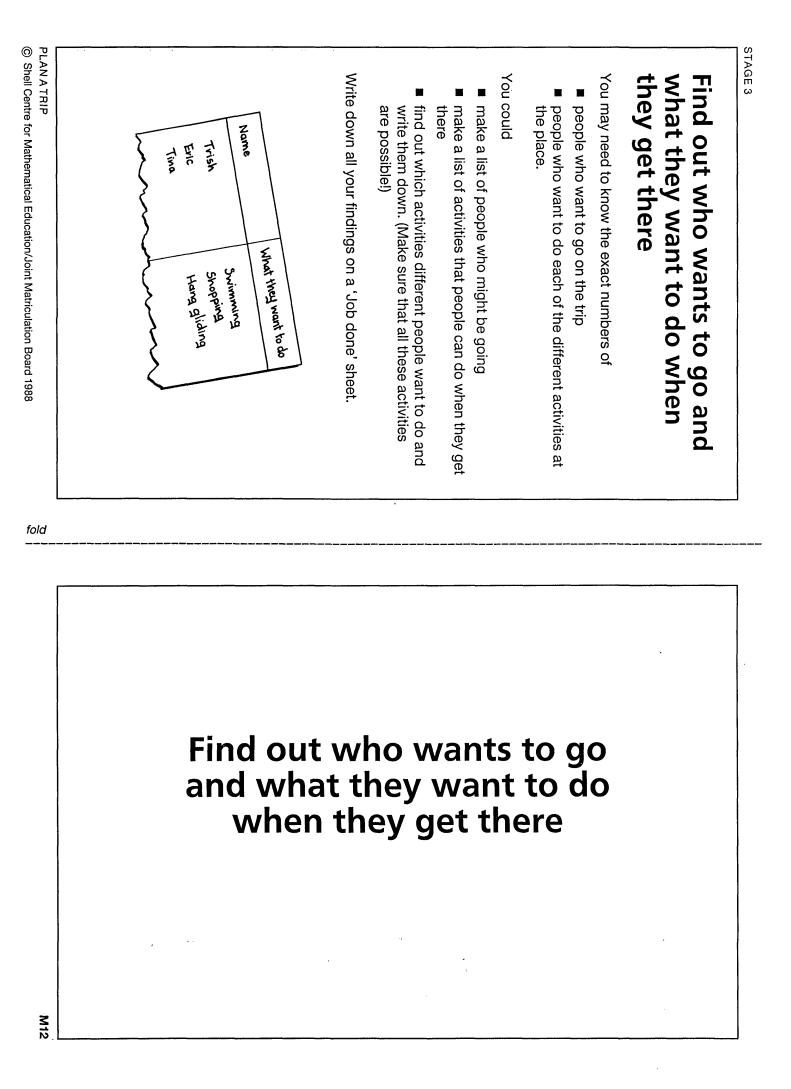
Job	Job must be done before (date)
Make final travel arrangements	
Find out more about the place	
Write a letter to parents	
Find out about buses	
Ask permission from teachers	
Find out who wants to go and what they want to do there	
Sort out possible travel timetables	
Find out how much money you will need	
Plan the route	
Coordinate the jobs	
Decide how to travel	
Find out about coaches	
Find out about trains	

			•	÷	4				M9
STAGE 3	Job done	Ourjob	Done by				·· · · · · ·	Fix your finished 'Job done' sheet to your 'Job card' and read page 19.	PLAN A TRIP © Shell Centre for Mathematical Education/Joint Matriculation Board 1988
STAGE 3	Job done	Our job	Done by					Fix your finished 'Job done' sheet to your 'Job card' and read page 19.	PLANATRIP © Shell Centre for Mathematical Education/Joint Matriculation Board 1988

	Timetable for the trip Time Where you will be and what you will be doing
	+
	-
	-
	<b>+</b>
	+
	<b>+</b>
	<b>+</b>
<b>1</b>	

Details of the trip       (For example, things to remember, direction what we need to bring: Clothes         What we need to bring: Clothes       Money         Money       Money         Food       Money         Other       Other         When we leave school       Money         When we get back       Mineh we leave school         When we leave school       Mineh we leave school         Mineh we are going to do       Mineh we are going to do         How we will go       Mineh we are going to do	(For example, things to remember, directions for the route, important phone numbers, details of meeting places.)
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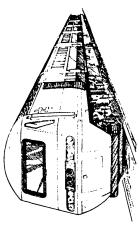
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STAGE 3

## Make final travel arrangements



Collect all the completed 'Job done' sheets which refer to travel.

If your trip involves a bus or train journey ..

- Look at the completed 'Find out about buses', 'Find out about trains' and the 'Sort out possible travel timetables' sheets.
- Has your class agreed on the travel details? Have you explored the possibility of getting a party discount? If not, you should do these jobs now.
- You may need to book seats or order tickets. If you can, make the arrangements, but check them with your teacher first.

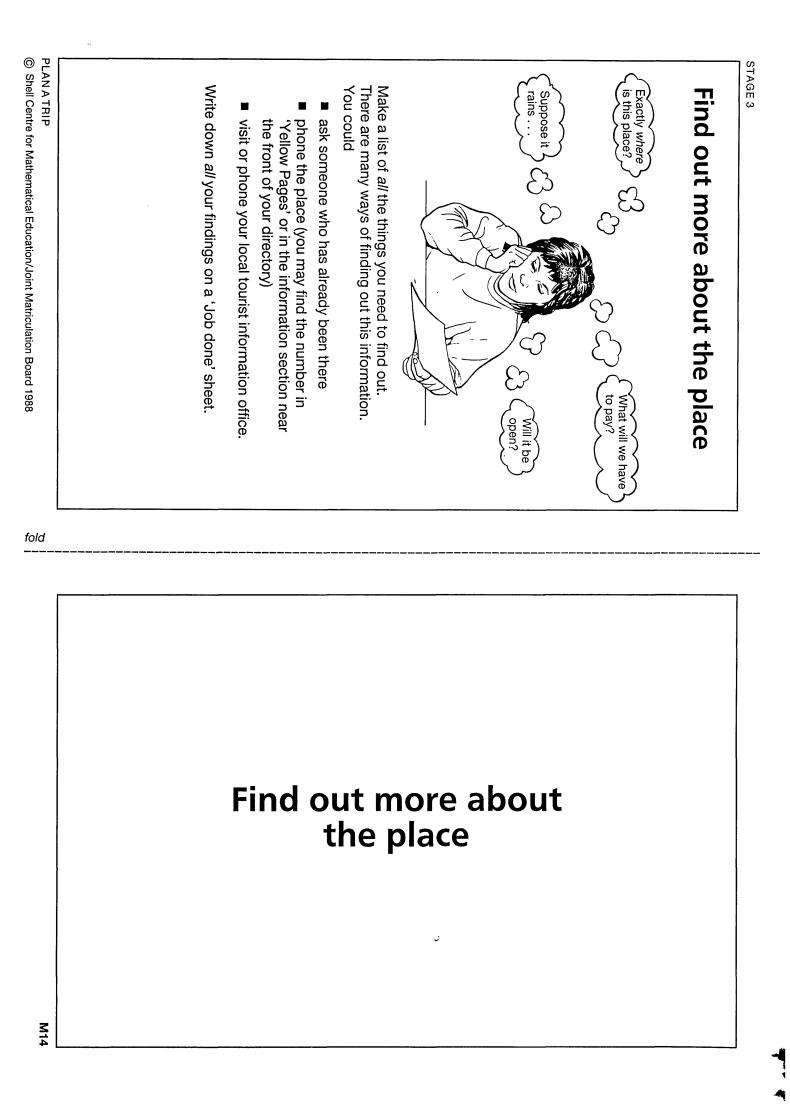
If you are going by coach . . .

- Look at the completed 'Find out about coaches' sheet to see which is the best company to use.
- Check that you know the kind of coach you need, when you need it for, and the costs involved.
- Check these details with your teacher then phone up and book the coach.

Describe what you have done on your 'Job done' sheet.

### Make final travel Brrangements

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# Sort out possible travel timetables

Check that these jobs have been done.

- Find out about buses.
- Find out about trains.

Look at the 'Job done' sheets and the bus and train timetables.

- Find out the bus stops or train stations you could use.
- Underline *all* the buses or trains that you could use. (Don't forget the return journey!)

ASHTON—HYDE—STOCKPORT via Stockport Road 329 ASHTON—HYDE—STOCKPORT via Dowson Road 330

Mondays to Fridays											
	Service No.	330	330	330	330	330	330		330		330
ASHTON, Bus Station		0829	0839	0849	80	0904 0919	0934	AND	1549	AND	1719
Hyde, Bus Station		0851	0854	9060		0921 0936	0951	EVERY	1606	1606 EVERY	1736
Gee Cross, Apethom Lane		0858		0913	0928	5469	0958	15	1613	9	1743
Woodley, Precinct		0902		0917	0932	0947	1002	MINS.	1617	MINS.	1747
STOCKPORT, Bus Station		<b>0918</b>		88	8	ŝ	1018	1018 UNTIL 1633	1633	UNTIL	1803

On a 'Job done' sheet write out your own timetables, using only the information you need.

	chun athal ciun acon	5	0150	0450		
Bus station	0918	0933	0918 0933 0948 1003	1003		
Bus station	9190	0426	0919 0926 0934 0942 0950 0958	2460	0450	0458
Apollo theathe	0943 0950 0958 1006 1014 1022	0450	0458	1006	1014	1022

If you need to catch more than one bus or train, work out the connections and write out a complete timetable on a 'Job done' sheet.

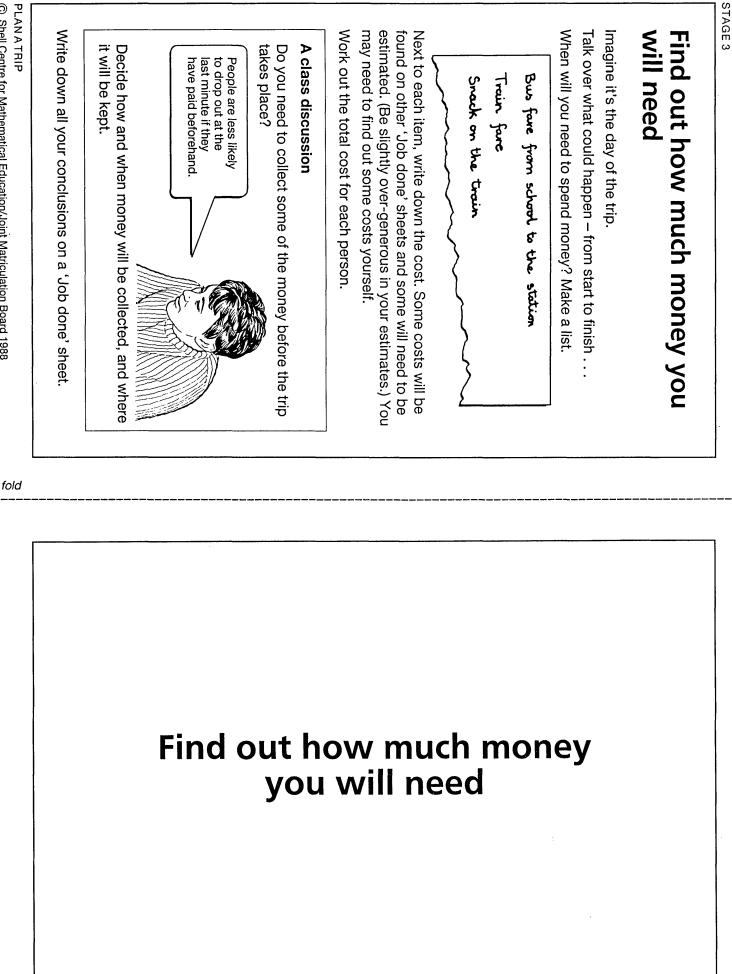
Gee Cross	0858	0913	0428
Bus station	0918	0433	8460
Bus station	0426	0942	0458
Apollo theathe	0450	1006	1022

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### Sort out possible travel timetables

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### Plan the route

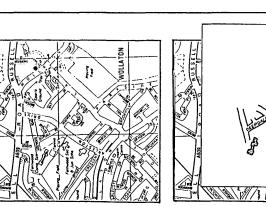
When you get off the bus or train, which way do you go? It is a good idea to plan your route beforehand.

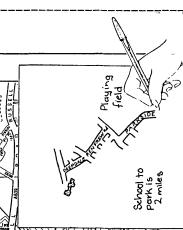
Street maps (like the A–Z series) are best for towns. Maps like the Ordnance Survey Landranger series (with purple covers) are good for planning routes in the country.

- you plan to follow. Find a map which shows the route
- Make a tracing of the the place names and route and write in all street names.
- these on your tracing. Use the map scale distances you'll be to find out all the travelling. Write
- Write down your estimated you probably walk a mile Work out how long each take. (As a rough guide, times on your tracing. in about 20 minutes.) part of your trip will
- Write directions onto a 'Job done' sheet. 'Turn right into Deepdale Road, cross Arleston Drive . . . .
- Attach your tracing to the 'Job done' sheet. Map extract © Estate Publications. Crown Copyright reserved

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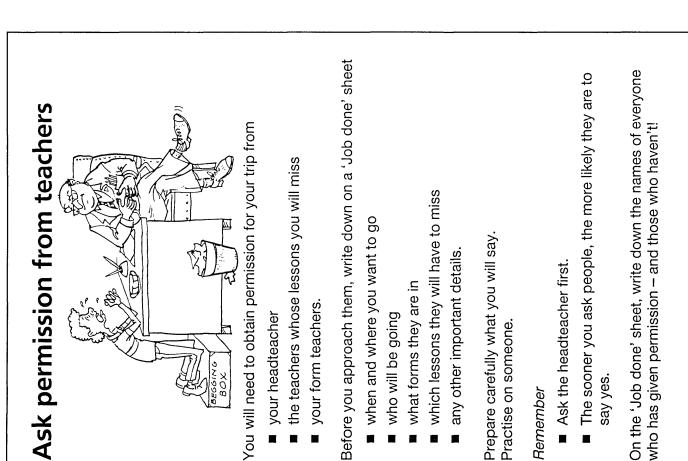




### Plan the route

M17

PLAN A TRIP © Shell Centre for Mathematical Education/Joint Matricu <sup>1</sup> ation Board 1988	make sure that everyone in the class is kept informed of the progress that is being made. (This could be done using a regular 'report back' session at the end of each lesson, where groups take it in turns to explain what they have done.)	<ul> <li>make new 'Job cards' if anyone thinks of something else that needs to be done</li> <li>make sure that the 'Jobs schedule' poster is being kept up to date</li> </ul>	<ul> <li>make sure that jobs are not forgotten</li> <li>make sure that deadlines are kept</li> <li>check that jobs are being done properly</li> <li>help groups to choose their next jobs</li> </ul>	Someone will need to 'coordinate' the work of the class. This job should not take up too much time, so the coordinator will be able to do other jobs too. The coordinator must	Coordinate the jobs
fold					
B	Coordin	ate th	ne jobs		



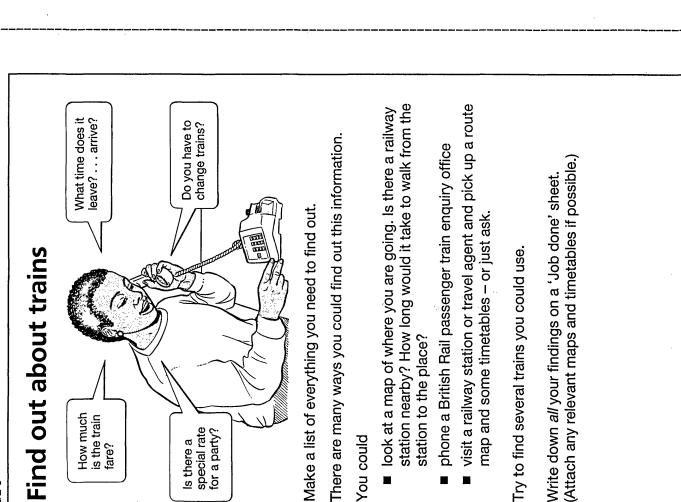
### Ask permission from teachers

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Shell Centre for Mathematical Education/Joint Matriculation Board 1988	Now phone up and complete your table. Compare the coach companies. Decide which is the best choice. Write this down on your 'Job done' sheet – with reasons.		Name of bus Telephone Total cost Cost per company number Person	draw a table on your 'Job done' sheet to record your findings:	<ul> <li>write down how you will start the phone conversation, and practise on a friend. He or she could pretend to be the coach company</li> </ul>	<ul> <li>write a list of everything you need to <i>tell</i> the company</li> <li>write a list of everything you need to <i>ask</i> them</li> </ul>	<ul> <li>choose a few coach companies. (You could do this by asking teachers who have hired coaches before, or by looking in 'Yellow Pages'.)</li> </ul>	Before you start using the telephone	It is well worth getting details from a few coach companies. How much will it cost to hire a 40 seater coach for the day?	Find out about coaches
fold										
M2		F	ind	οι	ıt al	boı	ut co	ba	ches	



### Find out about trains

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**M21** 

PLAN A TRIP © Shell Centre for Mathematical Education/Joint Matriculation Board 1988	Write down <i>all</i> your findings on a 'Job done' sheet. (Attach any relevant maps and timetables if possible.)	Try to find several alternative buses you could use.	<ul> <li>You may find the numbers in 'Yellow Pages' or in the local information section at the front of the directory.)</li> <li>ask people which buses go near where you're going</li> <li>use a bus route map and a timetable to choose suitable buses.</li> </ul>	Make a list of everything you need to find out. There are many ways you could find out this information. You could	How much is the bus fare? Is there a special rate of 25? Uthere is the best place to get off?	Find out about buses
fold						
-			Fir	nd ou	t about buses	

M22

STAGE 3

### Decide how to travel

Check that these jobs have been done.

- Find out about buses.
- Find out about trains.
- Find out about coaches.
- Sort out possible travel timetables.

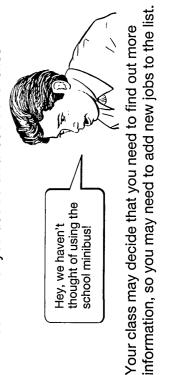
There may be others too. Collect all the relevant 'Job done' sheets.

Present all the information on the blackboard using a table. For example:

Commertes	People can be dropped off near theur homes	Only 12 hours thur
When we get booch	4-30	SI-S
When we Leove	12.50	12-30
Cost For When each we person leave	63.00	51.80
How we Can travel	Coach	sud

If the best method is not obvious, then discuss, with the rest of the class, the best way to go and try to reach some sort of If it is, then make sure the rest of your class agree! The best method of travel may be obvious. agreement.

Write down what you decide on a 'Job done' sheet.



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### Decide how to travel

L PLAN A TRIP	Your group will be in charge of giving out the letters and collecting the reply slips. Keep a record of this on the 'Job done' sheet.	<ul> <li>Now duplicate it. Attach one copy to a 'Job done' sheet and note down the names of the people who have approved it.</li> </ul>	<ul> <li>When you are sure it is ready, get it typed. (Your teacher and/or headteacher may need to see the final version.)</li> </ul>	Show your letter to a few people – they might notice something you have forgotten.	<ul> <li>On rough paper, make up a letter that could be sent to everyone's parents. Include a tear-off reply slip. (You could do this on word processor if one is available.)</li> </ul>	Make a list of everything they will need to know.	Your parents will have to give permission for you to go out of school.		Write a letter to parents
		<i>.</i>	W	rite	e a l	e.	tter	to parents	
M24					、	, , « <b>—</b> ,		<b>£</b>	

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ass	
-	and at any time during Stage 3. at one sitting, but may be spread over several lessons. nd do not want to do another one straight away, <i>please</i>
nen you finish a task, put a tick ag	gainst it below:
1. Telephone skills	
2. Timetable skills	
3. Using street plans	
4. Using a bus route map	
5. Asking for permission	
6. Sorting out jobs	
Notes for the teacher	
Masters M25 to M32 should be d	luplicated back-to-back to form an 8 page booklet.
The following resources will be re	equired: ne directory* and a 'Yellow Pages'*.
	'British Rail' talking timetable, a cassette player* and a
Task 4. A copy of the Nottingham Task 6. A set of 8 leisure centre jo	-
The items marked * are not incluc	led in the module package.
Please refer to page 40 in the Tea	acher's Guide for guidance on setting up these tasks.

You will need a copy of your local telephone directory	and a copy	of your local 'Yellow Pages'
• • • ·		
. Suppose that you and 6 friends are planning a trip to th to find out travel information. Look up the following t boxes.		
		Train
a) Local passenger train enquiries.	Number:	
	ì	Bus
b) Local bus station, for times of buses which pass	Number:	
<i>close</i> to your school.		Тахі
c) A local taxi service. Write down the <i>name</i> of the	Name:	
taxi company as well.	Number:	
		Mini-bus
d) A local mini-bus hire firm. (You only need a bus	Name:	
for 7 people.) Write down the name of the firm as well.		
	Number:	[
. Suppose that you also want to telephone the zoo. Y number is not in your phone book because it's too far 'Directory Enquiries' to find the number.		
		<b>Directory Enquiries</b>
What number is 'Directory Enquiries'	Number:	
	1	
. Suppose that you want to ring a friend who is on holida that the phone number is Falmouth 53839.	y at a hotel	in Cornwall. They have told y
;		Hotel
What number should you dial? (Give all 9 digits)	Number:	

### **Timetable skills**

You will need a tape recording of the British Rail talking timetable and a National Express coach service leaflet.

Imagine that you are planning a day trip to London for next Wednesday. You want to leave Nottingham as soon as possible after 9.00 am and you want to be back in Nottingham just before 6.00 p.m. You can go either by train or by coach.

Fill in this table to compare the two methods of transport.

Listen to the tape to find out train times. (Turn the tape over for return times.) Use the leaflet to find out coach times.

	Train	Coach
Nottingham to London (outward journey)		
What time would you leave Nottingham?		
What time would you arrive in London?		
London to Nottingham (return journey)		
What time would you leave London?		
What time would you arrive at Nottingham?		
How long would you have in London?		

Why? \_\_\_\_

What other information would you need before making a decision?

### Using street plans

You will need the Ayr maps.

1. Your family is on holiday near Stranraer in Scotland, and is planning to go to the swimming baths in Ayr.

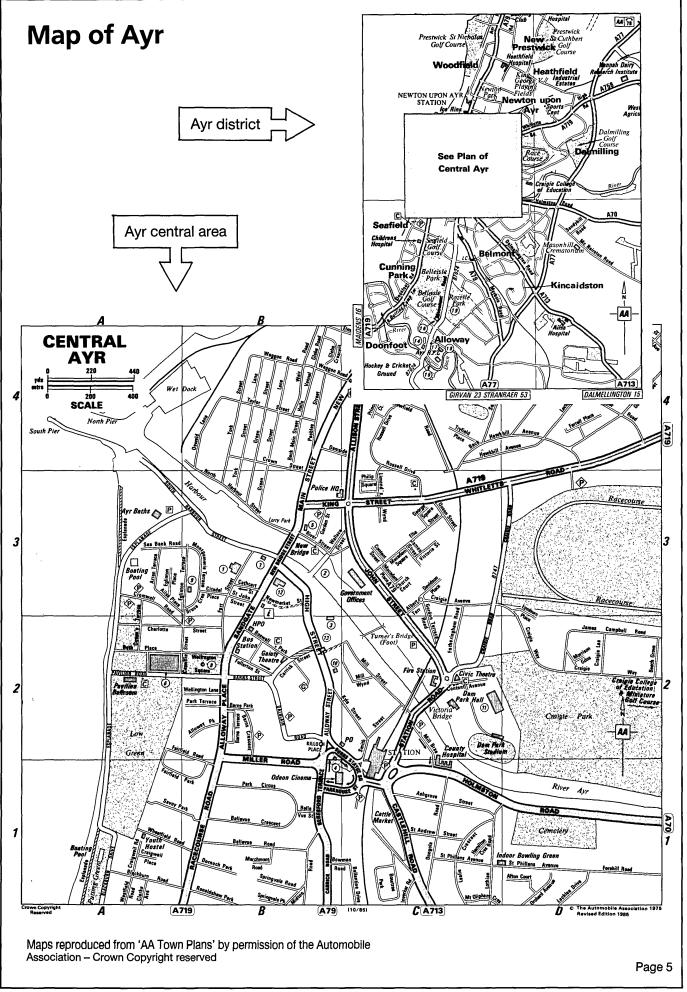
You are given these directions.

Go along the A77 road from Stranraer until you pass the golf course at Dalmilling. Then turn left at the next junction and carry on to the end of the road. Turn left, cross the bridge and then turn right. Take the second turning on your left and you'll see the swimming baths on your right.

Show this route clearly on the two maps.

2. In the space below describe in words a shorter way of getting to the swimming baths from the A77 from Stranraer.

Keep your instructions as simple as possible.



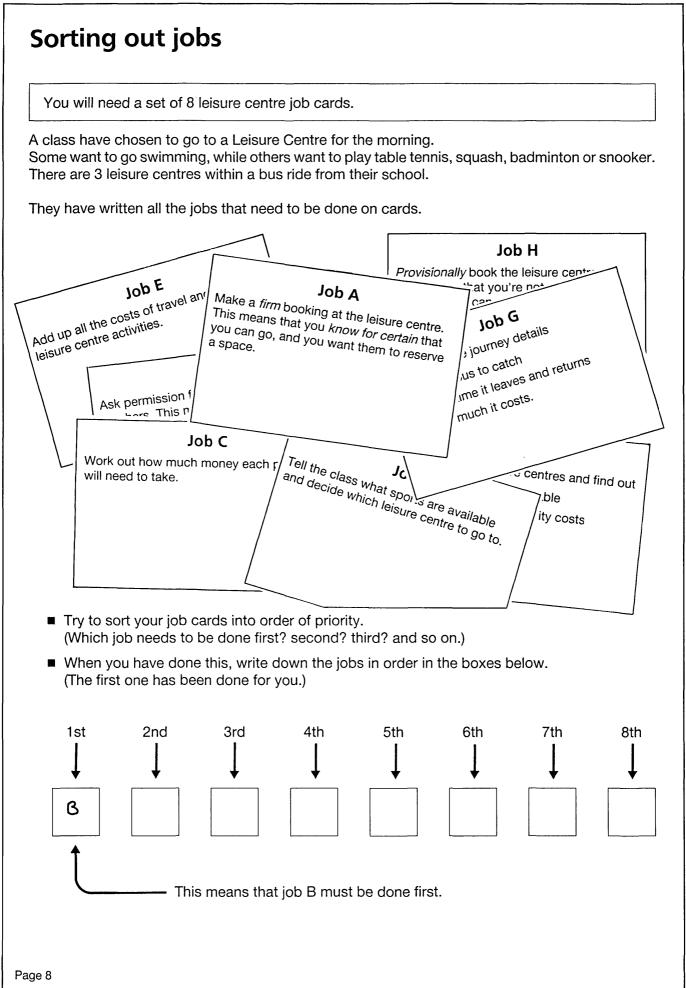
starts here). Starting at this terminus, trace the route of the 53 bus as it goes round Nottingham. As you of this, make a list showing all the roads it travels along. Use the space below. Number 53 bus route Corner of Farnborough and Southchurch Drive Southchurch Drive Farnborough Road (again!) Clifton Lane	You will nee	ed a copy of the Nottingham City Bus Services Route Map.
<ul> <li>Now find the roundabout which joins 'Southchurch Drive' to 'Farnborough Road'.</li> <li>You should now be able to see a blue '53' in a red box (this red box shows that bus number 5 starts here).</li> <li>Starting at this terminus, trace the route of the 53 bus as it goes round Nottingham. As you of this, make a list showing all the roads it travels along. Use the space below.</li> <li>Number 53 bus route</li> <li>Corner of Farnborough and Southchurch Drive</li> <li>Southchurch Drive</li> <li>Farnborough Road (again)</li> <li>Clifton Lane</li> </ul> Suppose that your aunt lives on Wollaton Vale, near Balloon Wood (A2). She has to go to the University Hospital (B3) for a check-up.	<ul> <li>Open up</li> </ul>	the map.
<ul> <li>You should now be able to see a blue '53' in a red box (this red box shows that bus number 5 starts here).</li> <li>Starting at this terminus, trace the route of the 53 bus as it goes round Nottingham. As you d this, make a list showing all the roads it travels along. Use the space below.</li> <li>Number 53 bus route</li> <li>Corner of Farnborough and Southchurch Drive</li> <li>Southchurch Drive</li> <li>Farnborough Road (again<sup>1</sup>)</li> <li>Clifton Lane</li> <li>Suppose that your aunt lives on Wollaton Vale, near Balloon Wood (A2). She has to go to th University Hospital (B3) for a check-up.</li> <li>Which bus could she catch?</li></ul>	Right at t	he bottom you will find 'Farnborough Road' (in square B4).
starts here).         Starting at this terminus, trace the route of the 53 bus as it goes round Nottingham. As you d this, make a list showing all the roads it travels along. Use the space below.         Number 53 bus mute         Corner of Famborough and Southchurch Drive         Southchurch Drive         Famborough Road (again <sup>1</sup> )         Clifton Lane         Suppose that your aunt lives on Wollaton Vale, near Balloon Wood (A2). She has to go to the University Hospital (B3) for a check-up.         Which bus could she catch?	Now find	the roundabout which joins 'Southchurch Drive' to 'Farnborough Road'.
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Southchurch Drive Fambororough Road (again <sup>1</sup> ) Clifton Lane Suppose that your aunt lives on Wollaton Vale, near Balloon Wood (A2). She has to go to th University Hospital (B3) for a check-up. Which bus could she catch?	Number 5	53 bus route
Famborough Road (again <sup>1</sup> ) Clifton Lane Suppose that your aunt lives on Wollaton Vale, near Balloon Wood (A2). She has to go to th University Hospital (B3) for a check-up. Which bus could she catch?	Corner of	Farnborough and Southchurch Drive
Clifton Lane Suppose that your aunt lives on Wollaton Vale, near Balloon Wood (A2). She has to go to th University Hospital (B3) for a check-up. Which bus could she catch?	Southchi	urch Drive
Suppose that your aunt lives on Wollaton Vale, near Balloon Wood (A2). She has to go to th University Hospital (B3) for a check-up. Which bus could she catch?	00000000	
Suppose that your aunt lives on Wollaton Vale, near Balloon Wood (A2). She has to go to th University Hospital (B3) for a check-up. Which bus could she catch?	Fambor	ough Road (again!)
What route does the bus take?	Fambor	ough Road (again!)
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### Asking for permission

Imagine that *your* class is going on a trip to *your* local swimming baths next Tuesday morning. One person has volunteered to write a letter to parents, asking for permission:

Dear Parent, We are going to the swimming baths next Tuesday. If \_\_\_\_\_ can go, please tick the box. Reply slip (Tear off and return to school) I agree that he/she can go.

Make a list of all the important details that have been missed out of the letter.



Job A	Job E	
Make a <i>firm</i> booking at the leisure centre. This means that you <i>know for certain</i> that you can go, and you want them to reserve a space.	Add up all the costs of travel and leisure centre activities.	
Job B	Job F	
<ul> <li>Phone up the 3 leisure centres and find out</li> <li>what sports are available</li> <li>how much each activity costs</li> <li>when it is open.</li> </ul>	Tell the class what sports are available and decide which leisure centre to go to.	
Job C	Job G	
Work out how much money each person will need to take.	<ul> <li>Find out all the journey details</li> <li>which bus to catch</li> <li>what time it leaves and returns</li> <li>how much it costs.</li> </ul>	
Job D	Job H	
Ask permission from parents and teachers. This means telling them <i>all</i> the plans in detail.	<i>Provisionally</i> book the leisure centre. This means that you're not absolutely sure that you can go, but you want them to reserve a space for a while.	

### Evaluating your own trip

Name.

Describe what *really* happened on your trip, from start to finish.

Time (approx.)	Where you were and what you were doing	What you spent

These were the good things about the trip ...

Describe any things that went wrong, or were different from what you had planned.

How could these mistakes have been avoided in the planning?

		Stage 1		Stage 2	2					Stag	ge 3				Stag 4
	<b>Criteria satisfied</b> A student has shown that he or she can:	evaluate a plan and identify faults in it (including expenditure of money and time)	generate lists of alternatives	devise a satisfactory rough plan (including sensible costings and time schedules)	(iv) use and describe a decision making process	obtain and interpret information from	(v) a telephone directory	(vi) aural and written timetables	(vii) a street map	(viii) a route map	(ix) identify omissions in given information	place given jobs in a logical order	(xi) complete a clear and comprehensive final plan	(xii) take an active part in the planning process	(xiii) evaluate the plan which has been implemented.
Name		) ()	(1)	(iii)	(iv)	ļ, ,	···	; ;	;	· · · · · · · · · · · · · · · · · · ·	(ix)	×	(X)	(xii)	(iiix)
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#### A day out in Derbyshire

You will need the information sheets M37, M38, M39 and M40.

Alison and two of her friends live in Loughborough. They have planned a cycling trip around Derbyshire for Saturday 25 October. Alison's mum has offered to go with them if necessary, since all three girls are only 15 years of age.

Unfortunately, the girls have made many mistakes and forgotten several things in their planning!

1. Read through their plan and the information sheets carefully. Whenever you find a mistake, or realise that something has been forgotten, write it down *and* say how they should change their plan.

#### The girls' plan

Meet at Loughborough station at 7.23 a.m. Buy tickets and then catch the train to Derby. This arrives at 7.51 a.m.

At Derby, catch the 8.20 a.m. train to Cromford.

This arrives at 8.41 a.m.

Here are the instructions for getting to the Cycle Hire Centre:

"Turn left as you come out of Cromford station, walk along by the river, cross over Cromford bridge and walk down Mill road. Cross over the A6, and walk through Cromford. Keep going for about half a mile up Cromford hill and you should see Oakerthorpe road on your left. Walk up this a little way and you'll see the car park and picnic site where they hire out the bikes."

Arrive at the cycle hire centre just before it opens at 9.30 a.m. Each person only needs £2 to hire a bike for the whole day.

Cycle along the High Peak Trail, until it meets the A515. Then go through Monyash and along the B5055 into Bakewell — a total distance of about 15 miles. We'll allow 3 hours for the ride, so we should arrive in Bakewell by about 12.30 p.m.

Spend about an hour in Bakewell, have a look round the shops, buy and eat our lunch.

At 1.30 p.m. leave Bakewell and cycle over to Chatsworth House, where we'll spend 2 hours looking around the House, Garden and Adventure playground.

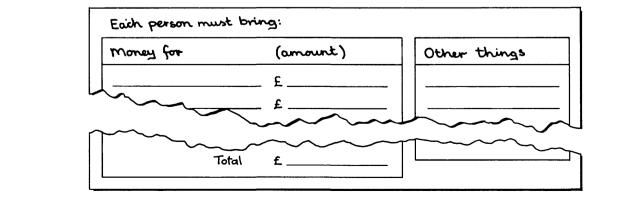
At 4.00 p.m. leave Chatsworth and cycle down the B6012 and the A6, arriving at Matlock at about 4.30 p.m., where we'll look around the shops until 6.00 p.m.

Ride the couple of miles back to Cromford, and catch the train that leaves at 19 minutes past 6.

The train arrives at Derby at a quarter to 7. Wait around for the 7.58 p.m. train to Loughborough. This arrives at 8.14 p.m.

2. Alison and her friends eventually sort out their mistakes. Alison starts to make a list showing everything she must bring.

Copy and complete her list. (Make sensible guesses at figures you don't know.)

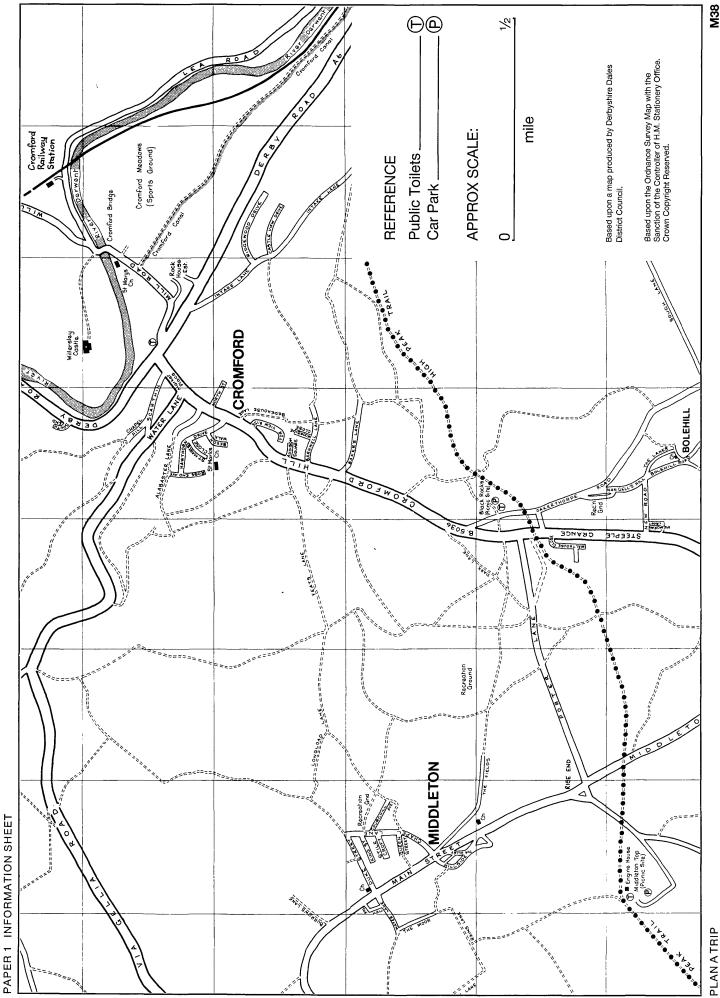


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#### Children

Children aged 5 and under 16 travel at half fare. Children aged under 5 years travel free, provided not more than 4 accompany each fare-paying passenger and they do not occupy seats required for other fare paying passengers.

Cost of a return adult fare from Loughborough to Cromford –  $\pounds$ 3.90.



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M38

INFORMATION SHEET	
PAPER 1	

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<b>Cycle hire information</b>	LOCATION	Muddleton Top Picnic Ste & Information Centre, on the High Peak Trail next to the Old Engine House. Signposted off the B5036 Cromford to Wirksworth road. OS MAP 119 Grid Reference SK276552	Hayfield Station Picnic Ste on the Sett Valley Trail, just off the A624 Chaple en le FrithGlossop road.	LEE HIRE SEDUTRES BAKEWELL BAK	Based upon a map produced by the Derbyshire Dales
Cycle hir	CYCLE HIRE CENTRE	MIDDLETON TOP End of season Cycle Sales November 5th Tel: (062 982) 3204	HAYFIELD	CYC BUXTON BSO54 BSO54 BSO54	Based upon a map pro

# PLAN A TRIP © In this format Shell Centre for Mathematical Education/Joint Matriculation Board 1988

M39

#### CHATSWORTH

Derbyshire



One of England's most beautiful and best-loved houses, in a splendid setting on the banks of the River Derwent in the Peak District National Park.

Chatsworth is famous the world over for its unrivalled private art collection, state apartments, and the Garden with cascade and fountains. The present House was built in 1678-1707 for the 1st Duke of Devonshire, with additions by Wyatville for the 6th Duke between 1820 and 1830.

#### A DAY AT CHATSWORTH

A visit to Chatsworth is much more than a visit to one of the most beautiful houses in Great Britain. There are plenty of things to see and do to interest all members of the family for a whole day.

Chatsworth House contains one of the finest collections in the world of paintings, furniture, tapestries, china, sculpture and gold and silver plate, collected by fifteen generations of Cavendishes. Visitors follow, at their own pace a clearly marked route round the House for which you should allow at least one hour.

The 105 acre garden is famous for its landscape, fountains and cascade. It is so big that there is always room to find peace and quiet. Dogs on leads are welcome.

Children find the Farmyard particularly interesting, especially the daily milking demonstration. The Adventure Playground, within the Farmyard, thrills and delights children of all ages.

#### **ADMISSION CHARGES**

#### House and Garden

### Adults £3.20 Senior Citizens £2.50 Children (under 16) £1.50 Students £2.50 Family Ticket £8.00

#### **Pre-booked Parties**

Adults	£2.75
Senior Citizens	£2.25
Students	£2.25
School Parties (including accompanying staff)	£1.50
Garden only	
Adults	£1.50
Children	£0.75
Farmyard and Adventure Playground	
Adults	£1.30
Children	£0.70
Family	£3.50
Scots Suite	
Adults	£0.30
Children	£0.15
Car Park	£0.50

#### **OPENING TIMES**

23rd March to 26th October, 1986	Opening times House Garden EVERY DAY 11.30-4.30 11.30-5.00 Visitors are asked to conclude their visit to the House and Garden one hour after the above times.
Farmyard and Adventure Playground 23rd March to 21st September	EVERY DAY 10.30-4.30
Saturday & Sunday 30th & 31st August	House and Garden open to Country Fair visitors only.
Friday, Saturday & Sunday, 3rd, 4th & 5th October	House and Garden open to Horse Trial visitors only.



#### Trips on the Leeds – Settle – Carlisle railway

You will need to refer to the information sheets M44, M45 and M46 for this task.

Imagine that you were the organiser for two separate day trips due to leave from Keighley on Saturday 19th September 1987. The two groups set off on the same train, but return separately. The groups are:

- a) The Americans. A group of 12 adults from the USA which is at present touring Britain. The Americans plan to spend the nights of 18th and 19th September at the White Lion, Haworth, near Keighley. Some of the group wish to spend the Saturday in Haworth; others want to go for a day trip to Carlisle. You are to be the guide on the Carlisle trip. (See task A.)
- b) The 'Over 70's'. You have promised to organise a day out for a group of them which will include both train and bus travel. They can't walk far and the cost must be kept down. (See task B.)

#### a) The Americans

It is the evening of Friday 18th September, the day before the trips. You go to the White Lion in Haworth to answer questions from the Americans about their trip to Carlisle.

1. Using the information sheets, write down answers to their questions on a copy of the table shown below. (Their first three answers have already been given.)

How will we go to Carlisle?	By train from Keighley station.
How do we get from Haworth to Keighley?	By bus; it only takes 15 minutes or so.
When does the train leave Keighley station?	At 9.05 a.m.
When does it get to Carlisle?	
We want to be back at the White Lion by 7.30 p.m. When do we have to leave Carlisle?	
How long will we have there?	
How much is the train fare?	
Roughly how long does each train journey take?	
What is there to see in Carlisle?	
Tell us some interesting sights to watch out for from the train.	

#### Trips on the Leeds – Settle – Carlisle railway (continued)

#### a) The Americans (continued)

- 2. You plan to take the Americans on a sight-seeing walk around Carlisle. A map of Carlisle and a plan for the walk are shown on page 3 (M43). Read through the plan carefully, and, on a copy of the map, show
  - a) the *route* of the walk
  - b) the likely positions of the underlined landmarks, using the letters given in brackets. (For example, the <u>Citadel</u> is at 'A'.)
- 3. Estimate the total length of the walk in metres.
- 4. Some of the party want to spend 20 minutes in the Lanes Shopping Centre. What is the latest time that the group should be walking past the Civic Centre, if they are to be sure of catching the train without hurrying?
- 5. As you pass the Civic Centre, a lorry driver stops to ask you how to get to the Victoria viaduct. Write down clear directions for a route for the driver.

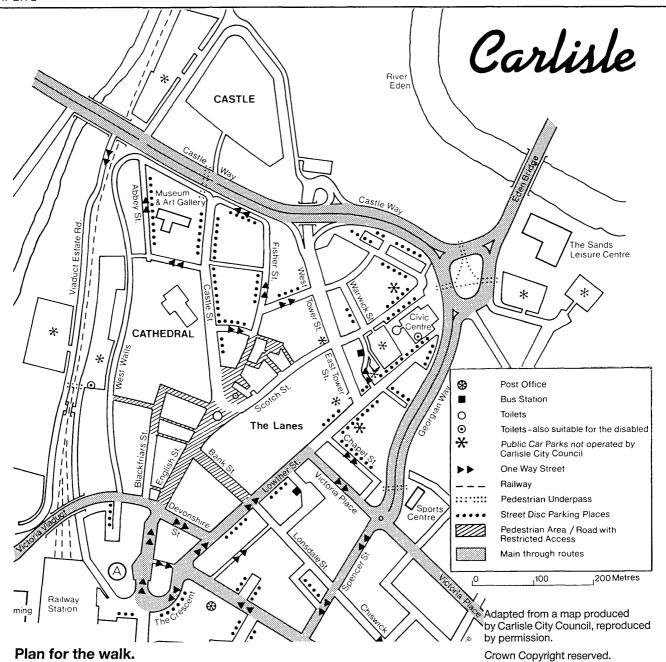
#### b) The 'Over 70's'

You visit the 'Over 70's' club to plan their day out for them. First you find out what they want . . .

'We don't want to spend more than £7.00 each on travel.' 'We'd like to go on the train and on a bus – see some nice scenery – have a cup of tea somewhere interesting – buy some souvenirs for folks at home.' 'We don't want to be back too late.'

- You recommend that they travel by train to Garsdale and then by bus to Sedburgh or Hawes. You have already found out that the bus fare from Garsdale to Sedburgh costs £1.00 return, and the fare from Garsdale to Hawes costs £1.10 return. Give as many details as you can of each of the two alternative trips, so that the club members can decide which they prefer.
- 2. They ask you which of the choices in question 1 you think is the best. Say which you would recommend. Explain why you would recommend it.
- 3. Assume that they agree with your choice, but would like some further information. Answer their questions.
  - 'How much will the travel cost each of us?'
  - 'How long will we have there before we catch the bus back?'
  - 'I have a friend in York who wants to come. How much would the travel cost her? What is the earliest time she could get back to York?'

Page 2



After arriving by train, walk past the <u>Citadel</u> (A), then turn left at the crossing, along Victoria Viaduct. Look for the little street, second right, called <u>West Walls</u> (B). Walk along West Walls a little, then turn first right along St Cuthbert's Lane, with <u>St Cuthbert's church</u> (C) on the left, just after Blackfriars Street, and so into the Market Square, with the <u>Market cross</u> (D) facing you. Turn to the left and you'll see the old <u>Town Hall</u> (E). Walk along Castle Street a little, then left into the Cathedral grounds, opposite the one-way street. After looking at the cathedral, continue past the black gates into <u>Abbey Street</u> (F) with the museum at the right.

Leave the museum by the rear exit, then under the <u>archway</u> (G) into Castle Street and through the subway to the Castle grounds. You can picnic or walk along the River Eden in nearby <u>Bitts</u> <u>Park</u> (H). Return to the station through the roundabout underpass, passing the Civic Centre on your left. Turn right opposite the car park, then left, and over the crossroads into <u>Market Street</u> (I). Turn left and you are soon back in the Market Square.

You can browse around The Lanes shopping centre before returning to the Railway Station.

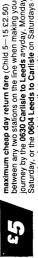


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9.30	8.80	8.50	8.20	7.70	7.00	6.10	5.80	5.00	4.60	3.90	Shipley BRADFORD F.S.
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## 5

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York/Selby	10.00	8.90	8.20		5.4
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Hull	16.50	11.50	10.80		7.7
Manchester	12.00	10.60	9.80		6.5
( NIG FREAS)	SPECIAL	EARLY BI	SPECIAL 'EARLY BIRD' OFFER -	- until 3 October	tober

ε 5.40 6.00 6.50 6.50



between any two stations on the line when making your outward journey by the **0630 Carlisle to Leeds** anyday, Monday to Saturday, or the **0604 Leeds to Carlisle** on Saturdays only. You may return by any train on the same day.



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Freedom of the North East Rover, extends to Sheffield, Carliste, Newcastle and Grimsby – all for £30 (£19.80 fo child/rail card). Ask at your local station for details. t Rover, covering lines betwe Leeds and Carlisle, costs £24 E-CARLISLE LINE reedom of the North West Liverpool, Manchester. Le P15.85 OVER 1



Day-Rover, Metro Card and other Metro travel deals may be used of trains between Leeds/Bradford and Keophey Details from local West YorkShire Metro or BR Travel Centres – or phone Wakeheld 375555.

# EEDS-SETTLE-CARLISLE RAILWAY

England's most scenic route with many dramatic This line was opened by the Midland railway in 1876 to head north through the Pennines, the result is viaducts and tunnels as the line passes through the as its new main line to Scotland in competition with the two established routes. Forced by geography superb scenery of the Yorkshire Dales and the Eden valley.

ATTRACTIONS AND ACCOMMODATION WRITE TO: FOR MORE INFORMATION ABOUT LOCAL

Yorkshire Dales National Park, Colvend, Grassington, Skipton, North Yorkshire BD23 5LB or ask at a local Tourist Information Centre (list overleaf).

**GUIDED WALKS** will be organised in connection with some normal service trains — on Sundays of the 1024 from Catifies, on most Saurdays of the 0842 from Leeds. Details from Yorkshire Dales National Park (address above)



SKIPTON

A PROGRAMME OF RAIL EXCURSIONS AND GUIDED WALKS OPERATES FROM LEEDS AND PRESTON ON SELECTED WEEKENDS

September, 4 October; details from YDNP (G) (address above) From Leeds on 17 May, 7 & 21 June, 5 & 19 July, 2 & 16 August, 6 & 20

on 9 May, 6 June, 4 & 5 July, 1 & 2 August, 5, 18 & 19 September, 30 October; details from Datestrail, PO Box 9, Guild House, Cross St, Preston PR1 8RD From Preston

## 7 DAYS on the SETTLE-CARLISLE Ask for leaflet giving details of suggested outings

International and the set of the The Friends of the Settle-Carlisle Line Association



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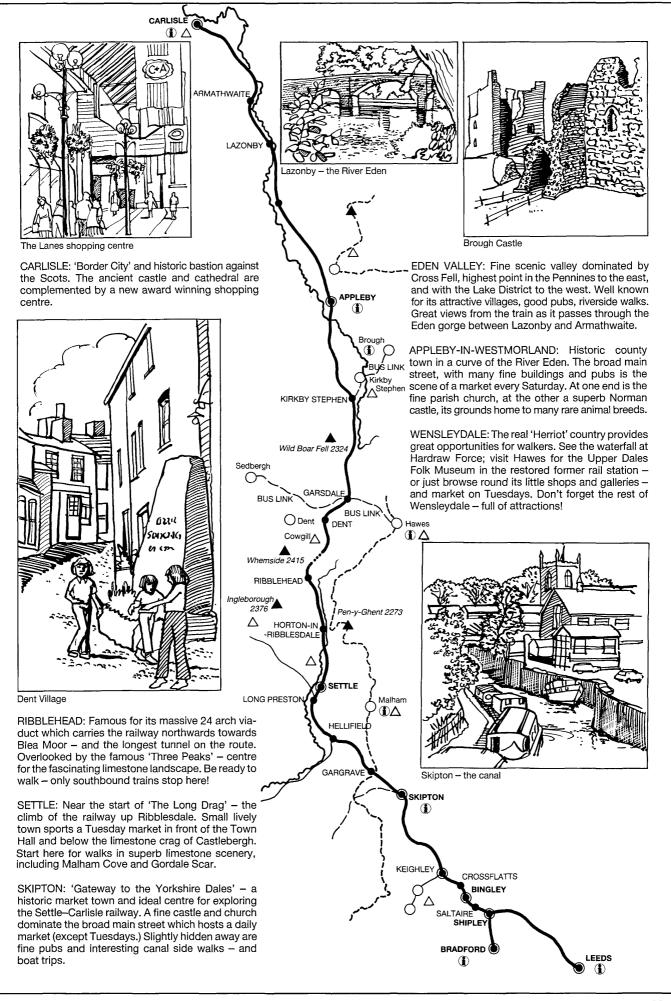
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Available Mondays to Thrustdays and Saturdays         (Not Saturdays)         For Notes see under Rail         Seturdays           Rota Carlon Rouss         National Junction and Minon Keynes – £25 (child £15).         Form LONDON, Watford Junction and Minon Keynes – £25 (child £15).           Fravelby the 0729 ex-Elumingham New Street to Carlisb, arme back flag.         File Ration Back flag over the back flag.           Fravelby the 0729 ex-Elumingham New Street to Carlisb, arme back flag.         File Ration Back flag over the back flag.           From LONDON, Wat and Dunch Keynes – £15 (child £16).         Fravel by the 0728 ex-Elumingham New Street to Carlisb.           Fravel by the 0728 ex-Elumingham New Street to Carlisb. arme back flag.         File Ration Street to the the 2716.           Framel by the 0728 ex-Elumingham New Street to Carlisb. arme back flag.         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