

Activity description

This is a simulation of a booking system for a small guesthouse.

Pupils have to manage the bookings and, as far as possible, arrange to give people the accommodation they request.

Suitability

Pupils working at lower levels in pairs

Time

Up to 2 hours

AMP resources

Pupil stimulus and booking sheets

Room plans and booking requests

Booking enquiries log and receptionist notes

Equipment

Access to computer spreadsheet

Key mathematical language

Key processes

Representing Finding and using alternative ways to handle a large amount of information; identifying factors that affect how bookings can be managed.

Analysing Working efficiently and systematically towards producing a clear plan, assigning guests to rooms while taking constraints into account.

Interpreting and evaluating Adapting solutions to take account of additional new constraints.

Communicating Producing a clear, accurate booking sheet; providing guests with clear reasons when requests cannot be met.



Teacher guidance

This activity uses a large number of pieces of information; these need to be dealt with systematically, in order. Classroom organisation will need to be considered carefully so that pupils can access the resources easily when required.

The initial booking requests are given on the pupil stimulus dated 5th June. Three further booking requests are all dated before 5th June. The booking enquiries log contains further booking requests, not all of which have been added to the booking sheet. Eight further booking requests, by letter, email or telephone message are all dated 5th June and marked with time received; these bookings are to be made in time order.

Pupils may wish to record bookings electronically. A simple spreadsheet is provided or pupils can create their own.

Telephone calls are presented as written messages. Teachers may wish to present this information orally, with pre-recorded messages (on CD or computer) or by role-playing guests ringing with enquiries.

Imagine that you and your friend have gone on holiday to Devon. You have been staying in a caravan, and it's nearly time to go home. You don't want to go home yet, but you've run out of money so you haven't any choice. Then you have a piece of luck because you hear that there are temporary jobs going at the Beach Guesthouse.

You go along to Mrs Penhaligon who runs the Beach Guesthouse, and she says she'll take you on if you can start in the morning.

In the morning you go round early. Mrs Penhaligon is very busy because she's cooking breakfast for the guests, so she tells you to go to the reception desk where you'll find the booking sheet, a note asking you to fill in next week's sheet and three old booking requests.

Bookings come in by letter, by phone and by email. When you've filled in the sheet, let Mrs Penhaligon know and she'll give you the next booking requests.

You can be operating as Mrs Penhaligon and providing pupils with information as and when necessary. Some pupils might be able to organise themselves and obtain all the information at the start. Most will benefit from being given the information stage by stage. The planned sequence is as follows:

Give out the note timed 8am and the booking sheets; pupils add the Allens and Mr George to the booking form.

Give out the room plan and the three previous bookings; pupils add these requests to the booking form.

Give out the booking log sheet; pupils check these details against the booking form.

Give out the eight further booking requests; pupils complete the booking log and add new bookings to the booking form.

You may choose to give these out as a pack of booking requests, or one by one as each request has been completed.

During the activity

You will need to check that pupils understand the notation of the booking sheet, and that they realise that "leaving on Wednesday" means guests do not need a room for Wednesday night.

You may choose to introduce the final three messages one by one and ask pupils to compose replies to each enquiry, explaining the reasons for their decisions.

Probing questions and feedback

AMP activities are well suited to formative assessment, enabling pupils to discuss their understanding and decide how to move forward. See <u>www.nuffieldfoundation.org/whyAMP</u> for related reading.

- Why did you put this guest in this room? Could they have been placed in any other room?
- How did you organise your work?
- What is your priority when you respond to people's requests? What are the consequences for the guest house and for other people?

Extensions

- Use contacts to find out how bookings are managed at a local hotel, theatre, and so on.
- Design forms that could be completed electronically by guests requesting bookings.
- Undertake cost analyses for the guesthouse, based upon real costs found on the Internet and assumed occupation rates.
- Investigate the internet to find examples of software packages that could be used for this or similar tasks, or places where such software is being used already.

Progression table

The table below can be used for:

- sharing with pupils the aims of their work
- self- and peer-assessment
- helping pupils review their work and improve on it.

The table supports formative assessment but does not provide a procedure for summative assessment. It also does not address the rich overlap between the processes, nor the interplay of processes and activity-specific content. Please edit the table as necessary.

Representing Using the booking sheet or other format to represent decisions Identifying factors that affect how bookings can be managed	Analysing <i>Extracting relevant</i> <i>information accurately</i> <i>and working logically</i> <i>within the constraints to</i> <i>optimise a solution</i>	Interpreting and Evaluating Interpreting the effects of decisions and other possibilities at each stage, and working towards better solutions	Communicating and reflecting <i>Communicating</i> <i>decisions clearly, with</i> <i>reasons where</i> <i>appropriate.</i>	
Uses the booking sheet provided without any amendment to the format Group A	Accurately completes the booking sheet for the first two booking requests		Initial solution is presented clearly	P
Extracts relevant information from requests using the floor plan data Continues to complete the booking form accurately for further requests, using the room plan to take account of specific requests Group B		Shows understanding of the booking form through accurately indicating when each room is vacated Group B	Accurate booking sheet easily interpreted by others Group B	ROGRШSS-OZ
Recognising the essential elements of clients' requests, coordinating requests between booking, enquiry and room plan Group C	Provides a solution meeting the needs of most requests with a completed booking enquiry log Group C	Understands and can explain how the booking form and telephone log can be used to check how well each client's requirements have been met Group C	Uses the log sheet to explain when and why requests cannot be met in full Acknowledges that there may be better solutions	
Recognises the need to balance guests' requests and the need for rooms to be occupied on as many nights as possible	Adjusts an initial solution appropriately to accommodate more requests	Understands and can explain how the booking form can be amended to produce a better arrangement	Completes a full, legible set of records that meet the criteria for each stage of the task. Explains how decisions were made over the final requests	

Group A

These pupils understand the task and have continued the dates into the next week, but included overnight on the day of departure for two bookings.

They have managed the initial flow of information satisfactorily and have begun to complete the telephone booking sheet correctly.

Probing questions

- The booking sheets show the nights the rooms are occupied. What is the last night Mr George needs his room? When is the last date he should appear on the booking sheet?
- Which day do the Allens leave on?
 What is the last night they will be staying?

RIGHT	DATE	BOOK 1	BOOH 2	ROOK 3	BDOH 4	ROOM 5
MON	sune ht	Hrand Hrs.	Mr Sands	Ms Quick	Mr and Mrs Frederick	John Frederick
TUE	June 2nd		Me sigh	1		
WED NIGHT	June 3rd			Anderson		
THU	June UK			1		
FRI	June		Mr Pahel	Mr and Mrs Allen		
SAT NIGHT	June 66		L		Nor and Mrs Regard	Mr George
SUN	June 7L	Hr and Ha Tatos	Jemie Peters	J	1	V

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NIGHT	DATE	BOOH 1	BOON 2	NDON P	BOOH 4	BOOH 5
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TUE	. 9					
WED NIGHT	N					
THU NIGHT	6	Brack		1		
PRI	n.					
SAT	13			LUMARK.		
SUR	h	f			1	

R BATE	TIME	CALLER	BOOKING REDUESTED (Type of ross and dates of mights)	REPLY
Jame 4	6.15	No Pard	Single will bulk , Sh and bet June	Agreed to bush fright without but
Join 4	6.05-	We and the Peters and son Dunch	Darthe and single for The June (Darthe will back)	Zoolat as asked
Jame 4	-	He Baynas	Single for & June . May stry lower it he weaks is sored	June 8 burked . At he arrived we shill have grown for the real of the week . We arrived
Junes	av;~~	Mr Richmond	Suble how an bath P For Smither 13" UNP That IF-	Can have activity a com
line 5th	10.004-	Hiss Arard	Room 12" June, 13" June is nois room with a bath.	Hiss reard is booked in to room 5
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		and the second		
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Group B

These pupils have accurately interpreted several requests. They have added additional bookings systematically in appropriate rooms.

They recognise that not all requests can be met and that it is important to try to place everyone if possible.

They complete the enquiry log. Although decisions are clearly recorded, they experience difficulties in summarising the booking requests concisely.

(See more of their work on the next page.)

Probing questions

- How could you accommodate as many guests as possible?
- Are there other ways of allocating the rooms to suit more people?

MIGHT	MATE'	ROOM 1	BOOH 3	E NOON	8008 4	BOOK S
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WED	June			Arand Hos Anderen		
THU	June					
FRI	June SA		Hr Publ	Hr and Hrs Allen		
SAT HIGHT	June 64		I		Hr Je Ha	Hr George
SUN	June 71L	Hrand Ha Peters	Denis Peters		T	V

HIGHT	DATE	ROOH 1	ROOM 4	ROOK 3	8008 4	BOOH S
MON	Jure 8th		Mr Boure	The Allens	Goorge Noonie	Hr Goorge
TUE	June	/	V	1		
WED	when	-	stain			
THU	Sure	A:Bossel	¥			2
PRI	Sine 12th					Hourd
TAB THOIN	June 13th		cius	ridymond		
SUN NI GHT	June 14th-		V	\lor		

HIGHT	DATE	BOOH 1	BOOK 2	E NOON	BOOM 4	ROOM S
HOR	ture :	H. Coccell			mocrie	
TUE	ion					
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THU	1800					
PRI	sure			1 E		
SAT NIGHT	20th		ana aliang pala gi a di kana ang ang ang ang ang ang ang ang ang			
SUN NICHT	sure					

Group B continued

(See the notes on the previous page.)

BATE	TIME	CALLER	BOOKING REQUESTED (Type of reas and dates of nights)	ADILY
June te	6.15m	No Patel	Single will bulk ; She and She June	Agreed to back sight without but
June 4	6.45-	Hr and Hrs Paters and son Jamis	Double and single for The June (Double will beich)	Earlief on asked
June 6	1.0	He Bayne	Single for 8 June . May stry larger if the scale is sort .	June 8 bushed . At the amount we shill have gover for the voor of the week . We cannot reserve a over ambes he says definitefue
June 5	915	Mr and Mro! Bithmond	Double rearry cloth both Lust for one night	Agreed to booth both
June 51	10000	Miss Hoard:	contral work on the fided	Booked as ashed
Jire 5	11000m	George Brodford	he wounts a bom	NO Spare rooms
June 5	145 m	Mr Stain.	from lots worm, 2 rughts	Booned as asked
June 5	1130m	Mrs Evanst	prove lin June nood	No example pomes
Jure 5	1.05	Sally Giles -	with even stars + quit	Agreed to book evolve without both
Juna 5	Soom	Mr Baynes.	Ston AL AND MORE	NO good shad of
time 6	2300	Hos Blands	contra for a contry Dout	No spare rooms

Group C

NIGHT	DATE	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5
MON NIGHT	Jure 8th	Mr Brynus -	~		Mr semis machie	.
TUE NIGHT	Jure 9th				1	
WED	Juni					m.F.
NIGHT	10 ch			ala .		Stain
THU NIGHT	June	midndmis Besel	Misevano			6
FRI NIGHT	June 12sti					miss Heard
SAT NIGHT	June 130			I mrnach.	and	L
SUN NIGHT	June	Y	V	Salahan (* 19 Salahan		Ą

DATE -	TIME	CALLER	BOOKING REQUESTED (Type of room and dates of nights)	REPLY
June hi	6.15pm	Mr Patel	Single with bath ; 5th and 6th June	Agreed to book single without bath
June 4	6.65pm	Mr and Mrs Peters and son Dennis	Double and single for 7th June (Double with bath)	Booled on asked
June 4	8.00 m	Mr Baynes	Single for & June . May stay longer if the weather to good	June 8 booked. At the moment we still have space for the rest of the week. We cannot reserve a room unders he says definitely.
June 5	9:4 5am	Mry Mrs Richmonth	double room with own bath	double bed no but foon
June 5	1000	miss Heard~	Single room + Lath 124 Sline-	booked as requested (room 5)
Junes	- 11:0 00m	George Baddel	room for evening 5th June	no she form
Jupos	11.15 am	mir steun	Subjeroom 10-11th june	booked in norms
Junes	11:30en	Mrs Evono V	wanted & oom 115 me - King	booked as veguested in norm 2
Junes	1.05ht	Soly cites -	room that sea view	nal-bookable
June 5	3000	Mr Buynes	room whole wash	noroom
June 5	2 3 cpm	Mrs Blakeley	denable room monsures	not300kable

These pupils have created a solution, logged accurately the information as it has become available, and found a suitable booking where possible, presenting the information clearly.

Further alternatives could have been considered to accommodate more requests.

• For example, Mr Baynes might have been happy with a room change which could have improved the solution.

Probing question

• How do you know if you have considered all the possible solutions to the booking requests and found the best one?