

Main task	Foundation GCSE and Level 1/2 Functional Skills students
Suggested uses	1 Independent starter 2 Whole lesson on everyday mathematics
Must previously cover	Using time
Extension	Foundation GCSE and Level 1/2 Functional Skills students

Starter (Worksheet 1)

This is part of the timetable for the number 75 bus in Paris.

Pont Neuf	11 48	11 58	12 08	12 18	12 28	12 38
Hôtel de Ville	11 55	12 04	12 14	12 23	12 32	12 42
Archives	11 57	12 06	12 16	12 25	12 34	12 44
Arts et Métiers	12 01	12 10	12 19	12 28	12 37	12 46
République	12 04	12 14	12 22	12 31	12 41	12 50
Goncourt	12 10	12 19	12 29	12 38	12 47	12 57
Hôpital St Louis	12 12	12 21	12 31	12 40	12 49	12 59
Colonel Fabian	12 16	12 25	12 35	12 44	12 53	13 03
Parc Buttes Chaumont	12 19	12 28	12 38	12 47	12 56	13 06
Porte de Pantin	12 24	12 33	12 45	12 53	13 03	13 14

Charles catches the bus from Hôtel de Ville to the Hôpital St Louis.
 He visits a friend there for half an hour.
 He catches the next possible bus and arrives at Porte de Pantin at 13 14

What time does he catch the bus from Hôtel de Ville?

Answer

The 13 14 bus leaves Hôpital St Louis at 12 59
 $12\ 59 - 30\ \text{mins} = 12\ 29$
 The bus before is 12 21.
 He caught the 12 04 from Hôtel de Ville.
 (Check: 12 04 arrives at 12 21. Add 30 mins = 12 51. Next bus is 12 59,
 which arrives at 13 14✓)

Links to Level 2 Skills Standards

Skills standard		Evidence
Ra	Understands problem and starts to access it	Finds time of bus leaving Hôpital St Louis
Aa	Uses mathematics to find a solution	Subtracts 30 minutes
Rb	Identifies the problem and decides on methods to use	Works out which bus he must have arrived on
Aa	Uses mathematics to find a solution	States the time of that bus at Hôtel de Ville
Ab	Checking	Does a reverse check

Links to GCSE

Assessment Objectives			GCSE 4360			GCSE 4365	Linked Pair Pilot Methods and Applications			
AO1	AO2	AO3	Unit 1	Unit 2	Unit 3	Linear	M1	A1	M2	A2
	✓		S2.5			S2.5		S7		

Extension (Worksheet 2)

Annie says

‘I want to walk to the Pompidou Centre tomorrow.
 I will spend about an hour there.
 Then I will catch the bus to meet Jean.
 We are meeting at 1 pm at Parc Buttes Chaumont.’

- Annie walks at about 80 metres a minute.
- The Pompidou Centre is 1.6 km from her flat.
- It takes 7 minutes to walk from the Pompidou centre to the Archives bus stop.

Write a plan for Annie’s trip.
 Give full details including times in your plan.

Answers

$1.6 \text{ km} = 1600 \text{ m}$
 $1600 \div 80 = 20 \text{ minutes}$

One possible plan: Set off at 11 am.
 Walk for 20 minutes.
 Arrive at Pompidou Centre at 11 20
 Spend 1 hour
 Leave at 12 20
 Walk 7 minutes to Archives bus stop
 Arrive at 12 27
 Catch 1234 bus
 Arrive at Parc Buttes Chaumont at 12 56

Links to Level 2 Skills Standards

Extension	Rb	Identifies the problem and decides on methods to use	Calculates time for walk
	Ra	Understands problem and starts to access it	Sets off by 11 07
	lb	Draws conclusions and gives justifications	Leaves Pompidou 1 hour + their 20 mins later
	Rc	Chooses mathematics to find a solution	Arrives at bus stop 7 mins later
	Aa	Uses mathematics to find a solution	Catches next bus from Archives
	la	Interprets solutions to multistage problems	Sets out suitable plan, arriving at Parc by 13 00

Links to GCSE

	Assessment Objectives			GCSE 4360			GCSE 4365	Linked Pair Pilot Methods and Applications			
	AO1	AO2	AO3	Unit 1	Unit 2	Unit 3	Linear	M1	A1	M2	A2
Extension			✓	S2.5			S2.5		S7		