Tables and timetables

Prior learning

- Can construct frequency tables, pictograms, bar charts and line graphs to represent the frequencies of events and changes over time.
- Can collect, select and organise data to answer questions, draw conclusions and identify further questions to ask.

Learn

• Use the table in the textbook to reinforce effective use of a table of information. This can be extended beyond locating data to making deductions (Which planet has the shortest orbit time?), and 'sum' and 'difference' type questions (How much hotter is Venus than Earth?).

Curriculum objectives

• To complete, read and interpret information in tables, including timetables.

Success criteria

• I can read and use tables and timetables.

Talk maths

- A range of timetables will be needed for this activity to succeed. If it is impractical to get these from bus and railway stations, remember that a wide range of timetables, including interactive ones, are available online.
- There are ample learning opportunities in planning agendas for day trips, including waiting times. More confident learners can move on to plan world travel via online research.

Tables and timetables

• The bus timetable provides

a range of opportunities for

enhancing understanding.

Assuming a constant speed for

the bus, children should be able

to estimate the relative distances

between locations. This could

lead to a simplified map of the

imaginary town. Alternatively,

children could question each

other about departure and

78 Statistics

or four buses.

journey times, and/or create

further columns for the next three

Learn	an spot facts abou s and compare				
Information complicate	n is often preser ed information a	nted in tables. This ta bout some planets i	able provides n our solar system.	has dif	fferent units.
Planet	Diameter (km)	Day length (hours)	Orbit time (days)	Temp. (°C)	
Mercury	4878	4223	88	167	100
Venus	12,104	2808	225	480	- ul
Earth	12,756	24	365	20	N.S.
Mars	6794	24.5	687	-65	

This timetable	shows bus times from						
the bus station	to the local school.						
Check with a p how to read the	partner that you know e timetable properly.	BUS TIMETABLE					
These buses h	ave a circular route.	Bus number	6	7	6	7	
Can you see th	ne halfway point?	Bus station	10:00	10:15	10:30	10:	
Can you soo th	High Street	10:08	10:23	10:38	10:		
the number 6 r	Supermarket		10:30		11:		
Why wouldn't	and 7 bus foules?	Train station	10:15		10:45		
oupormarket of	you go to the	Doctor's surgery	10:24	10:34	10:54	11:	
What is the lon	ri the humber o bus :	School	10:27	10:37	10:57	11:	
what is the longest time it takes to		Doctor's	10:30	10:40	11:00	11:	
get between tv	vo stops?	Train station	10:39		11:09		
		Supermarket		10:45		11:	
	Can you spot the	High street	10:46	10:52	11:16	11:	
	patterns for the bus	Bus station	10:54	11:00	11:24	11:	
	times?						





Activities

- This section in the textbook will consolidate skills and vocabulary developed so far. To provide extended, context-based work the links to 100 Maths Lessons Year 5 provide scenarios and resources that can be very effective with appropriate planning.
- If further practice in using bar how they would interpret the and bus timetable. Can they create charts and graphs for these?

Ta	alk maths			
Tii sta sc	netables are available from bus ations. They are also on the inter metimes these are interactive.	s and train ernet, and		
Us	e timetables to plan a day trip.	. Plan at least		
fo	ur journeys with as little time w	aiting as	Did you kn	
pc			There are ove made in the U	
Α	ctivities 🔗			
1.	Use the table on page 78 to	answer these q	uestions	
	about our solar system.			
	a. Which is the largest plane	ť?		
	b. Which is the coldest plane	et?		
	c. which planet has the tast	est orbit?		
	d. which planets have a sim	liar length of day?		
2.	Use the bus timetable on p	age 78 to answer	r these questions	
	a. Which bus has a shorter journey from the bus station to the so			
	 How orien does the number How long is the journou fr 	er o leave the bus	s station :	
	d Why do you think the num	onn the doctor's st	ngery to the schoo	
		,,		
Р	roblems			
Lo	ok at the bus timetable on pag	je 78.		
Bi Tre	rain-teaser evor has a doctor's appointmen ation?	nt at 10:45am. Wr	nich bus should he	
510				

charts or line graphs is required, challenge the children to consider information in the planets chart

Problems

- Once children have solved the problems, encourage them to develop their own, in particular with new bus times for later in the day, which they will need to calculate for themselves.
- 100 Maths Lessons Year 5, Summer 2, Week 6, which may have been used when studying line graphs, can also provide experience in creating charts and tables.



100 Maths Lessons Year 5 links:

- Autumn 2, Week 6 (pages 78-82): collect, organise and interpret information in tables and bar charts
- Summer 2, Week 6 (pages 242-246): plan an investigation to collect and represent data

Year 5 Practice Book links:

(pages 122–123): Complete a timetable