

Time

Learning Objective: To Interpret timetables

In this lesson, you'll learn just how important being able to use timetables are in the real world. You'll see how you need this vital skill if you want to use public transportation.

Watch the video below to get started.

<https://drive.google.com/file/d/1mDUkjpq4jO8J9qhqE5aUI63Vq7kLLguU/view>

Watch the video below to learn all about interpreting timetables

<https://www.youtube.com/watch?v=n7dhPxgOpwc>

What is a Timetable?

Take a look at this timetable. A **timetable** is the schedule for public transportation such as buses, trains, and airplanes. The timetable tells you exactly where the bus, train, or airplane will be and when it will be there.

Glendalough Station	Hasler Rd/Walters Dr	Glendalough Station
6:54 am	6:58 am	7:11 am
7:04	7:08	7:21
7:14	7:18	7:31
7:24	7:28	7:41
7:34	7:38	7:51
7:45	7:49	8:02
7:55	7:59	8:12
8:05	8:09	8:22

This particular timetable is for a bus that goes from Glendalough Station to Hasler Road and Walters Drive, and then back to Glendalough Station.

Reading a Timetable

To read this timetable, you'll look at the times on each line.

Each line, or row, tells you the schedule for one of the buses.

Looking at this schedule vertically, you see that the buses run every 10 minutes or so. The first bus starts at 6:54 am, the second at 7:04, and the third at 7:14. It takes about four minutes for the bus to go from Glendalough Station to Hasler Road/Walters Drive.

Looking at this timetable, you also see that the bus makes a complete circle. The trip from Hasler Road/Walters Drive back to Glendalough Station takes a bit longer, around 13 minutes. So, it takes longer to go from Hasler Road/Walters Drive to Glendalough Station than it does if you go from Glendalough Station to Hasler Road/Walters Drive.

Glendalough Station	Hasler Rd/Walters Dr	Glendalough Station
6:54 am	6:58 am	7:11 am
7:04	7:08	7:21
7:14	7:18	7:31
7:24	7:28	7:41
7:34	7:38	7:51
7:45	7:49	8:02
7:55	7:59	8:12
8:05	8:09	8:22

Using a Timetable

To use the timetable, you first figure out what time you need to be at a certain place. Then you look for the place on the timetable and find the time that is close to the time you need to be there. If you need to walk from the bus stop, you'll need to figure that time in as well.

For example, say you need to get to a 7:45 am appointment within walking distance of Hasler Road/Walters Drive. Walking to your meeting place from the bus stop will take you about five minutes. So you need to find the bus that will arrive before 7:40 am.

You are traveling from Glendalough Station. To find your bus, you look at the timetable and look for the column for Hasler Road/Walters Drive. Then you look for a time that is before 7:40 am. The closest one you see is the one for 7:38 am. Now, you change columns to the location where you will be getting on the bus, Glendalough Station, which is the first column. Staying on the same line, you see that the bus that you need to take will leave Glendalough Station at 7:34 am. So you need to be at Glendalough Station by 7:34 am.

Glendalough Station	Hasler Rd/Walters Dr	Glendalough Station
6:54 am	6:58 am	7:11 am
7:04	7:08	7:21
7:14	7:18	7:31
7:24	7:28	7:41
7:34	7:38	7:51
7:45	7:49	8:02
7:55	7:59	8:12
8:05	8:09	8:22

Your Turn

Now it is your turn. You can start on the **enabler (easiest)**, **core (average)**, **extender (very hard)**. I suggest you start on the core and if you find it too easy try the extender if you find it too tricky try the enabler. Use your skills to read each timetables and answer the questions. At the end of each section is a game to help you practice your skills.

Enabler

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday and Sunday
School	8:00am	8:00am	8:00am	8:30am	8:30am	10:00am
Shops	9:00am	9:00am	9:00am	9:30am	9:30am	11:00am
Westfield	10:30am	10:30am	10:30am	11:00am	11:00am	12:30pm

1. If I want to get a bus from School to the shops on Wednesday what time would I need to be at the bus stop?

If I take the bus at 8:00am from school on Monday what time will I arrive at the shops?

2. If I take the bus at 8:00am from school on Monday what time will I arrive at the westfield?

3. How long does journey from the shops to westfield take?

4. If I get a bus from the shops on Saturday what time will I arrive at westfield?

Enabler

Practise your new skills with the game below.

<https://www.studyladder.com.au/games/activity/interpret-timetables-21374?backUrl=/games/mathematics/au-year-six/mathematics-time-623>

Core

Destination	Journey A	Journey B	Journey C
London	10:20	11:30	16:40
Derby	12:20		18:00
Sheffield	12:40	13:10	18:30
York	13:20	13:55	19:15
Newcastle	14:25	14:40	
Duration			3 hours

1. Journey B takes 1 hour to get from London to Derby. What time do you arrive at Derby?
2. Journey C takes a total of 3 hours. What time does it arrive at Newcastle?
3. How long does journey A take?
4. You need to be at York for 13:30. Which is the best journey to take?
5. You arrive at Sheffield train station at 18:10. How long do you have to wait for the next train to Newcastle?
6. How many stations does the 11:30 train stop at before it reaches York?

Core

7. Sunday trains run exactly 2 hours later than the rest of the week. Fill in the timetable above.

	Sunday Train Times		
Destination	Journey A	Journey B	Journey C
London	12:20	13:30	18:40
Derby			
Sheffield			
York			
Newcastle			
Duration			

Core

Practise your new skills with the game below.

<https://www.studyladder.com.au/games/activity/interpret-timetables-21374?backUrl=/games/mathematics/au-year-six/mathematics-time-623>

Extender

Destination	Journey A	Journey B	Journey C
London	10:17	11:37	16:43
Derby	12:12		18:08
Sheffield	12:38	13:08	18:27
York	13:16	13:58	19:14
Newcastle	14:06	14:34	
Duration			3 hours and 5 minutes

1. Journey B takes 1 hour and 16 minutes to get from London to Derby. What time do you arrive at Derby?
2. Journey C takes a total of 3 hours and 5 minutes. What time does it arrive at Newcastle?
3. How long do journeys A and B take? What is the difference in time?
4. You need to be at York for an appointment at 14:30. Which is the best journey to take? How much spare time will you have in York before your appointment?
5. You arrive at Sheffield train station at 16:50. How long do you have to wait for the next train to Newcastle?
6. How many stations does the 11:37 train stop at before it reaches York?

Extender

7. Journeys D, E and F run exactly 11 hours 35 minutes later than journeys A, B and C. Fill in the timetable above.

Destination	Journey D	Journey E	Journey F
London			
Derby			
Sheffield			
York			
Newcastle			
Duration			

Extender

8. Create your own train timetable with three journeys. Use your own stations and times.

Destination	Journey ___	Journey ___	Journey ___

Extender

Practise your new skills with the game below.

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