

Key Stage 1-2 LESSON PLAN – A journey that counts!

Approximate Time	Activity	Resources
10 minutes	<p>Introduction</p> <p>Explain to pupils the importance of sustainable transport and brief intro about Glider and how technology can support sustainable transport and help in reducing carbon emissions.</p>	<p>What is the Glider?</p> <p>Fact sheet about the new way of travelling across Belfast between east and west</p>
10 minutes	<p>Warm up Activity</p> <p>Group work (to encourage mixed ability): pupils are asked to have a look at the map of the Glider route and plan their journey. They can decide to follow the entire route or divide the journey in more sections (it depends on time)*</p>	<p>Map attached</p>
20 minutes	<p>Main Activity</p> <p>Once the pupils are organised in groups and they have planned their journey, they can start their maths task.</p> <p>Note: they can complete the entire route or decide to stop at any time during their virtual journey (the teacher will decide if developing this activity in one or more sessions).</p>	<p>Glider Resource</p> <p>– maths challenge map</p>
20 minutes	<p>Follow up activity</p> <p>Teachers and pupils can plan as many journeys as they like!</p> <p>This activity can be extended for a few days and repeated as a good mathematics exercise.</p> <p>Each group of pupils can eventually design their own math challenge, which will then be shared with the other groups.</p>	<p>Map attached</p>

*the activity can be developed across more than one session so the pupils can plan their journey in more than one day with different stops. It depends on pupils' abilities and available time. Suggestion: divide the journey in more than one session.

City Centre

At this point we have 2 options:

- Do you want to go to visit the Titanic Visitor Centre (5A)? This would be a new Glider.
- Do you want to visit the Colin Town Centre Hub (5B)? This is on the original Glider.

Note: Check the number of people at the last Glider Stop (City Centre) and keep in mind how many people will travel to the Colin Town Centre Hub

Follow up exercise: make your own journey to come back to the Park & Ride, and to visit other city attractions including a math challenge...how many people can you count and keep track of during your journey?

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This math task could be either done as classroom activity or as interactive activity taking the pupils on a day trip around Belfast!

Objectives: Mathematics and Numeracy - Using Mathematics; developing the young person as a contributor to the economy and environment (education for sustainable development); Learning experiences (investigating and problem solving; active and hands-on; challenging and engaging).

TEACHERS Answers to questions on worksheet:

1. Dundonald Park & Ride

10 cars in total

$$2 \times 4 = 8$$

$$3 \times 3 = 9$$

$$1 \times 2 = 2$$

$$4 \times 1 = 4$$

Total 23 passengers

2. Stormont Halt

7 passengers

Total passengers on the vehicle $7+23=30$

3. Hollywood Arches Halt

2 passengers get off

5 get on

Total passengers on Glider now $30-2+5=33$

Total passengers from Dundonald Park & Ride still on Glider $23-2=21$

4. May Street (City Hall) Halt

7 passengers get off

8 new passengers get on

Total Passengers on the Glider $33-7+8=34$ (direction Colin Connection Halt) (5b)

3 passengers getting off here decided to get on a new Glider to Titanic Halt (5a)

5a. Titanic Halt

Passengers from May Street (City Hall) from first Glider journey 3

Passengers at May Street (City Hall) halt to get on the Glider 15

Passengers at Odyssey Halt 5

$$3+15+5=23$$

5b. Colin Connect Halt

Passengers still on Glider (1st journey) 34

Passengers at Kennedy Centre Halt getting on Glider 4

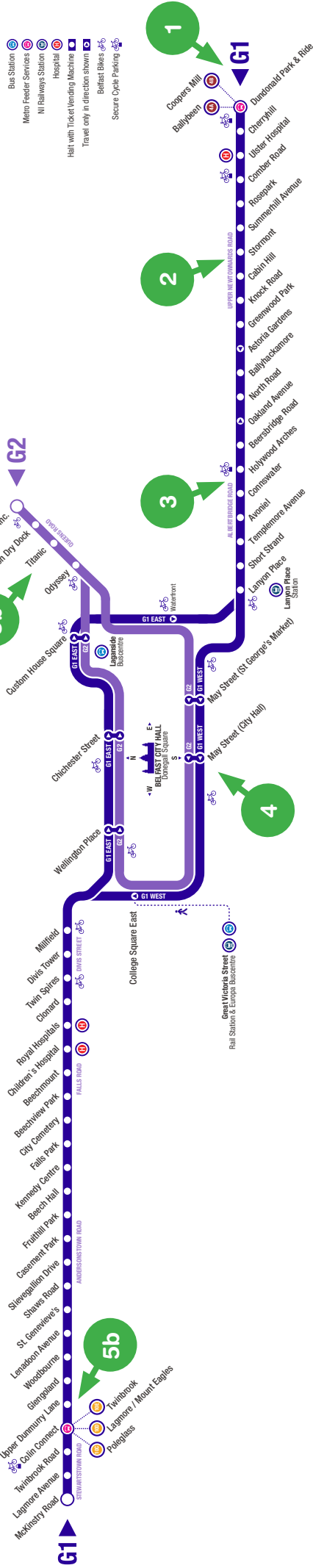
Passengers at Kennedy Centre Halt getting off Glider 1

$$\text{Total going to Colin Connect Halt } 34+4-1=37$$

ROUTE MAP



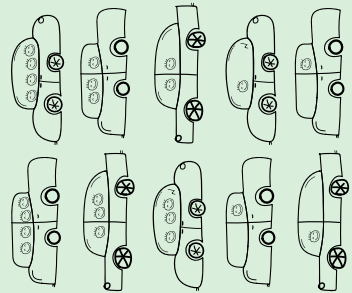
let's go together
translink.co.uk



1

Dundonald Park & Ride

10 Cars have been parked at the Dundonald Park & Ride. 2 cars have 4 passengers in each; 3 cars have 3 passengers in each; 1 car 2 passengers in each; 4 with 1 passenger in each. How many passengers in total will get on the next Glider to the City Centre?



2

Stormont Halt

At the Stormont Halt 7 passengers get on the Glider.

How many passengers are now travelling on the vehicle?



3

Hollywood Arches Halt

2 passengers from the Dundonald Park & Ride get off the Glider, but 5 more passengers get on.

a. How many passengers are now travelling on it?

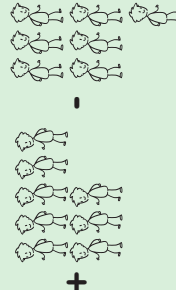
b. how many passengers from the Dundonald Park & Ride are still on the vehicle?



4

May Street Halt

At the May Street (City Hall) Halt all the passengers who got on the vehicle at Stormont Halt get off. Now 8 new passengers get on instead. How many passengers do we have now on the Glider?

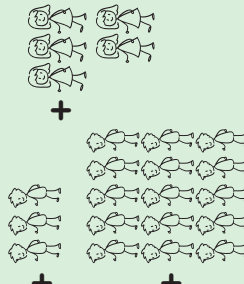


5a

Titanic Halt

Three of the last passengers to get off at May Street (City Hall) Halt decided to take a ride to the Titanic Visitor Centre. A big group of tourists joined in at the same stop (15 in total).

Meanwhile at the Odyssey Halt 5 more passengers got on the Glider. How many passengers will go to the Titanic Visitor Centre using the Glider?



5b

Colin Connect Halt

Some of the passengers still on the vehicle since the beginning of the Glider journey have decided to stop at the Colin Connect Halt. On its way to the Colin Halt the Glider will stop at the Kennedy Centre: 4 passengers will get on the bus here, while 1 will get off.

How many passengers are still making their journey from the Dundonald Park & Ride?

