

# UNDERSTANDING THE IMPACT OF WARD LEVEL POPULATION GROWTH ON YOUR SERVICES

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# Scenario

- You run an after-school homework club for 14-16 year olds in the London Borough of Barking and Dagenham, in the wards Albion, Eastbury and Gascoigne.
- In order to run the service successfully you need 1 staff member or volunteer for every 5 children who attend. You currently have 50 students attending, with 10 staff/volunteers.
- You are about to apply for funding to keep this club running for the next 5 years, until 2023.
- We can use the Datastore to see if it holds data which can help us project population growth by ward and therefore allow us to estimate the number of staff we will need by 2023.

Step 1 – Get your data

# LONDON DATASTORE

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Population projects by ward and age

### 2011 Census Demography

Census Information Scheme

Reports and data on population growth and change

× 5 (20.05 MB)

population change growth demography

Greater London Local Authority Ward

Created 4 years ago

### GLA Population Projections - Custom Age Tables

Greater London Authority (GLA)

This Excel based tool enables users to query the raw single year of age data so that any age range can easily be calculated without having to carry out often complex, and time consuming formulas that could also be open to human error. Each year the GLA demography team produce sets of population projections. The full raw data by single year of age (SYA) and gender are available...

× 6 (141.33 MB)

population wards age tool demography growth

Updated 6 months ago

### Birth and Death Rates, Ward

Use the data tab to bring up the search function.

You know you want data broken down by age and ward, so be specific in your search.

A number of related options come up. Use the blurb underneath to see which is most relevant to what you are looking for.



## GLA Population Projections - Custom Age Tables

Greater London Authority (GLA)

Data

Created 4 years ago, updated 6 months ago

This Excel based tool enables users to query the raw single year of age data so that any age range can easily be calculated without having to carry out often complex, and time consuming formulas that could also be open to human error. Each year the GLA demography team produce sets of population projections.

The full raw data by single year of age (SYA) and gender are available as Datastore packages at the links below.

### How to use the tool

Simply select the lower and upper age range for both males and females (starting in cell C3) and the spreadsheet will return the data.

Find out more about GLA population projections on the [GLA Demographic Projections page](#)

Click here for an [archive of population projections from previous years that have since been superseded](#).

### BOROUGH PROJECTIONS - 2016-based population projections (published July 2017)

- [Central Trend-based projection \(using a 10-year migration scenario\)](#)
- [Short-term Trend-based projection \(using a 5-year migration scenario\)](#)
- [Long-term Trend-based projection \(using a 15-year migration scenario\)](#)
- [Housing-linked projection incorporating data from the 2016 SHLAA](#)

### WARD PROJECTIONS - 2016-based population projections (published 14 November 2017)

- [Ward-level projections consistent with the borough housing-led model](#)

This page explains what the datasets hold, where it is from, how regularly it is updated and how to download and use the data.

As you can see this data is broken down in different ways – we want to select the Custom Age Tables by Ward Projections as we need this granularity to answer our questions. Double click and this will download as an excel document

Ward\_Housing\_led\_projection\_age\_range\_creator\_2016 [Compatibility Mode] - Excel

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N244

GREATER LONDON AUTHORITY

	Males	Females
Low Age	0	0
High Age	90+	90+

1 Enter age range required for both males and females. If either no males or females are required, select this option, which appears at the bottom of the drop down list after 90+, in both low and high boxes.

2 Select year and area required by selecting from the filters in row 14.

2016-based population projections Contact: GLA Intelligence Unit (demography@london.gov.uk)

Year	Area Code	Borough	Area Name	Male	Female	Persons
2011	E05000026	Barking and Dagenh	Abbey	6,900	6,000	12,900
2012	E05000026	Barking and Dagenh	Abbey	6,700	5,850	12,550
2013	E05000026	Barking and Dagenh	Abbey	6,950	6,000	12,900
2014	E05000026	Barking and Dagenh	Abbey	7,300	6,300	13,600
2015	E05000026	Barking and Dagenh	Abbey	7,550	6,450	13,950
2016	E05000026	Barking and Dagenh	Abbey	7,950	6,750	14,700
2017	E05000026	Barking and Dagenh	Abbey	8,150	6,900	15,050
2018	E05000026	Barking and Dagenh	Abbey	8,300	7,000	15,300
2019	E05000026	Barking and Dagenh	Abbey	8,450	7,100	15,500
2020	E05000026	Barking and Dagenh	Abbey	8,850	7,400	16,250
2021	E05000026	Barking and Dagenh	Abbey	9,250	7,700	16,950
2022	E05000026	Barking and Dagenh	Abbey	9,600	7,950	17,600
2023	E05000026	Barking and Dagenh	Abbey	9,950	8,200	18,200
2024	E05000026	Barking and Dagenh	Abbey	10,300	8,450	18,750
2025	E05000026	Barking and Dagenh	Abbey	10,600	8,650	19,300
2026	E05000026	Barking and Dagenh	Abbey	10,950	8,900	19,800
2027	E05000026	Barking and Dagenh	Abbey	11,250	9,100	20,300
2028	E05000026	Barking and Dagenh	Abbey	11,500	9,300	20,800
2029	E05000026	Barking and Dagenh	Abbey	11,800	9,500	21,300
2030	E05000026	Barking and Dagenh	Abbey	12,000	9,600	21,600
2031	E05000026	Barking and Dagenh	Abbey	12,150	9,700	21,800
2032	E05000026	Barking and Dagenh	Abbey	12,250	9,750	22,000
2033	E05000026	Barking and Dagenh	Abbey	12,350	9,800	22,150
2034	E05000026	Barking and Dagenh	Abbey	12,450	9,850	22,300
2035	E05000026	Barking and Dagenh	Abbey	12,500	9,900	22,400
2036	E05000026	Barking and Dagenh	Abbey	12,550	9,900	22,450
2037	E05000026	Barking and Dagenh	Abbey	12,600	9,900	22,500
2038	E05000026	Barking and Dagenh	Abbey	12,600	9,900	22,500
2039	E05000026	Barking and Dagenh	Abbey	12,650	9,900	22,550
2040	E05000026	Barking and Dagenh	Abbey	12,700	9,900	22,650
2041	E05000026	Barking and Dagenh	Abbey	12,800	9,950	22,750
2042	E05000026	Barking and Dagenh	Abbey	12,850	9,950	22,800
2043	E05000026	Barking and Dagenh	Abbey	12,900	9,950	22,850
2044	E05000026	Barking and Dagenh	Abbey	12,900	9,950	22,900

2016-based Demographic Projections  
London Ward population projections Housing-led Model  
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All data are taken from the 2016-based GLA population projections.  
Source: GLA demography (data.london.gov.uk/demography)  
For more information contact: demography@london.gov.uk

Custom age range tool Sheet1 Single year of age

On downloading, the dataset will look like this.

Here you can select the age ranges the data in the table is showing.

Here you can see the breakdown by year the projection is for up to 2050 for each ward, and projections for males, females and the total.

	<b>Males</b>	<b>Females</b>
<b>Low Age</b>	14	14
<b>High Age</b>	16	16

- 1 Enter age range required for both males and females. If either no males or females are required, select this option, which appears at the bottom of the drop down list after 90+, in both low and high boxes.
- 2 Select year and area required by selecting from the filters in row 14.

As you can see now we have set the range for our required Age group 14 – 16 year olds.

The totals in the table below now reflect this instruction, giving projections just for 14-16 year olds.

2016-based population projections Contact: GLA Intelligence Unit (demography@london.gov.uk)

Year	Area Code	Borough	Area Name	Male	Female	Persons
2011	E05000026	Barking and Dagenham	Abbey	200	200	400
2012	E05000026	Barking and Dagenham	Abbey	200	150	350
2013	E05000026	Barking and Dagenham	Abbey	200	150	350
2014	E05000026	Barking and Dagenham	Abbey	200	200	400
2015	E05000026	Barking and Dagenham	Abbey	200	200	400
2016	E05000026	Barking and Dagenham	Abbey	200	200	400
2017	E05000026	Barking and Dagenham	Abbey	200	200	400
2018	E05000026	Barking and Dagenham	Abbey	200	200	400
2019	E05000026	Barking and Dagenham	Abbey	250	200	450
2020	E05000026	Barking and Dagenham	Abbey	250	250	500
2021	E05000026	Barking and Dagenham	Abbey	300	250	550
2022	E05000026	Barking and Dagenham	Abbey	300	250	550
2023	E05000026	Barking and Dagenham	Abbey	300	300	600
2024	E05000026	Barking and Dagenham	Abbey	300	300	600
2025	E05000026	Barking and Dagenham	Abbey	350	300	650
2026	E05000026	Barking and Dagenham	Abbey	350	300	650
2027	E05000026	Barking and Dagenham	Abbey	350	350	700
2028	E05000026	Barking and Dagenham	Abbey	350	350	700
2029	E05000026	Barking and Dagenham	Abbey	350	350	700
2030	E05000026	Barking and Dagenham	Abbey	400	350	750
2031	E05000026	Barking and Dagenham	Abbey	400	350	750
2032	E05000026	Barking and Dagenham	Abbey	400	350	750
2033	E05000026	Barking and Dagenham	Abbey	400	350	750
2034	E05000026	Barking and Dagenham	Abbey	400	350	750
2035	E05000026	Barking and Dagenham	Abbey	400	350	750
2036	E05000026	Barking and Dagenham	Abbey	400	350	750
2037	E05000026	Barking and Dagenham	Abbey	400	350	750
2038	E05000026	Barking and Dagenham	Abbey	400	350	750
2039	E05000026	Barking and Dagenham	Abbey	400	350	750
2040	E05000026	Barking and Dagenham	Abbey	400	350	750
2041	E05000026	Barking and Dagenham	Abbey	400	350	750
2042	E05000026	Barking and Dagenham	Abbey	400	350	750
2043	E05000026	Barking and Dagenham	Abbey	400	350	750
2044	E05000026	Barking and Dagenham	Abbey	400	350	750

**2016-based Demographic Projections**  
**London Ward population projections Housing-led Model**  
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B22 2018

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	Males	Females
Low Age	14	14
High Age	16	16

1 Enter age range required for both males and females. If either no males or females are required, select this option, which appears at the bottom of the drop down list after 90+, in both low and high boxes.

2 Select year and area required by selecting from the filters in row 14.

Contact: GLA Intelligence Unit (demography@london.gov.uk)

2016-based population projections

Year	Code	Borough	Area Name	Male	Female	Persons
2011	E05000026	Barking and Dagenh	Abbey	200	200	400
2012	E05000026	Barking and Dagenh	Abbey	200	150	350
2013	E05000026	Barking and Dagenh	Abbey	200	150	350
2014	E05000026	Barking and Dagenh	Abbey	200	200	350
2015	E05000026	Barking and Dagenh	Abbey	200	200	400
2016	E05000026	Barking and Dagenh	Abbey	200	200	400
2017	E05000026	Barking and Dagenh	Abbey	200	200	400
2018	E05000026	Barking and Dagenh	Abbey	200	200	450
2019	E05000026	Barking and Dagenh	Abbey	250	200	450
2020	E05000026	Barking and Dagenh	Abbey	250	250	500
2021	E05000026	Barking and Dagenh	Abbey	300	250	550
2022	E05000026	Barking and Dagenh	Abbey	300	250	550
2023	E05000026	Barking and Dagenh	Abbey	300	300	600
2024	E05000026	Barking and Dagenh	Abbey	300	300	650
2025	E05000026	Barking and Dagenh	Abbey	350	300	650
2026	E05000026	Barking and Dagenh	Abbey	350	300	650
2027	E05000026	Barking and Dagenh	Abbey	350	350	700
2028	E05000026	Barking and Dagenh	Abbey	350	350	700
2029	E05000026	Barking and Dagenh	Abbey	350	350	700
2030	E05000026	Barking and Dagenh	Abbey	400	350	750
2031	E05000026	Barking and Dagenh	Abbey	400	350	750
2032	E05000026	Barking and Dagenh	Abbey	400	350	750
2033	E05000026	Barking and Dagenh	Abbey	400	350	750
2034	E05000026	Barking and Dagenh	Abbey	400	350	750
2035	E05000026	Barking and Dagenh	Abbey	400	350	750
2036	E05000026	Barking and Dagenh	Abbey	400	350	750
2037	E05000026	Barking and Dagenh	Abbey	400	350	750
2038	E05000026	Barking and Dagenh	Abbey	400	350	750
2039	E05000026	Barking and Dagenh	Abbey	400	350	750
2040	E05000026	Barking and Dagenh	Abbey	400	350	750
2041	E05000026	Barking and Dagenh	Abbey	400	350	750
2042	E05000026	Barking and Dagenh	Abbey	400	350	750
2043	E05000026	Barking and Dagenh	Abbey	400	350	750
2044	E05000026	Barking and Dagenh	Abbey	400	350	750

2016-based Demographic Projections  
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For more information contact: demography@london.gov.uk

Custom age range tool Sheet1 Single year of age

Average: 761.375 Count: 42 Sum: 18273

Now we can search for the ward and years we are interested in. As Abbey is at the top of the list, we can select 2018 – 2023, to cover the 5 year projection we need.

Ward\_Housing\_led\_projection\_age\_range\_creator\_2016 [Compatibility Mode] - Excel

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Year	Area Code	Borough	Area Name	Male	Female	Persons
2018	E05000026	Barking anc	Abbey	200	200	400
2019	E05000026	Barking anc	Abbey	250	200	450
2020	E05000026	Barking anc	Abbey	250	250	500
2021	E05000026	Barking anc	Abbey	300	250	550
2022	E05000026	Barking anc	Abbey	300	250	550
2023	E05000026	Barking anc	Abbey	300	300	600

400 Sheet1 Sheet2 Single year of age

As this is a large dataset, I have created a new sheet where we can copy the relevant data for our analysis.



Ward\_Housing\_led\_projection\_age\_range\_creator\_2016 [Compatibility Mode] - Excel

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E215 fx Eastbury

GREATER LONDON AUTHORITY

	Males	Females
Low Age	14	14
High Age	16	16

1 Enter age range required for both males and females. If either no males or females are required, select this option, which appears at the bottom of the drop down list after 90+, in both low and high boxes.

2 Select year and area required by selecting from the filters in row 14.

2016-based population projections Contact: GLA Intelligence Unit (demography@london.gov.uk)

Year	Area Code	Borough	Area Name	Male	Female	Persons
198	2034	E05000030	Barking and Dagenh: Eastbrook	250	250	
199	2035	E05000030	Barking and Dagenh: Eastbrook	250	250	
200	2036	E05000030	Barking and Dagenh: Eastbrook	250	250	
201	2037	E05000030	Barking and Dagenh: Eastbrook	250	250	
202	2038	E05000030	Barking and Dagenh: Eastbrook	250	250	
203	2039	E05000030	Barking and Dagenh: Eastbrook	250	250	
204	2040	E05000030	Barking and Dagenh: Eastbrook	250	250	
205	2041	E05000030	Barking and Dagenh: Eastbrook	250	250	
206	2042	E05000030	Barking and Dagenh: Eastbrook	250	250	
207	2043	E05000030	Barking and Dagenh: Eastbrook	250	250	
208	2044	E05000030	Barking and Dagenh: Eastbrook	250	250	
209	2045	E05000030	Barking and Dagenh: Eastbrook	250	250	
210	2046	E05000030	Barking and Dagenh: Eastbrook	250	250	
211	2047	E05000030	Barking and Dagenh: Eastbrook	250	250	
212	2048	E05000030	Barking and Dagenh: Eastbrook	250	250	
213	2049	E05000030	Barking and Dagenh: Eastbrook	250	250	450
214	2050	E05000030	Barking and Dagenh: Eastbrook	250	250	450
215	2011	E05000031	Barking and Dagenh: Eastbury	250	250	500
216	2012	E05000031	Barking and Dagenh: Eastbury	250	250	500
217	2013	E05000031	Barking and Dagenh: Eastbury	250	250	500
218	2014	E05000031	Barking and Dagenh: Eastbury	250	250	450
219	2015	E05000031	Barking and Dagenh: Eastbury	250	200	450
220	2016	E05000031	Barking and Dagenh: Eastbury	250	200	450
221	2017	E05000031	Barking and Dagenh: Eastbury	250	200	450
222	2018	E05000031	Barking and Dagenh: Eastbury	250	200	450
223	2019	E05000031	Barking and Dagenh: Eastbury	250	200	450
224	2020	E05000031	Barking and Dagenh: Eastbury	250	200	450
225	2021	E05000031	Barking and Dagenh: Eastbury	250	250	500
226	2022	E05000031	Barking and Dagenh: Eastbury	300	250	550
227	2023	E05000031	Barking and Dagenh: Eastbury	300	250	550
228	2024	E05000031	Barking and Dagenh: Eastbury	250	250	500
229	2025	E05000031	Barking and Dagenh: Eastbury	250	250	500
230	2026	E05000031	Barking and Dagenh: Eastbury	250	250	500
231	2027	E05000031	Barking and Dagenh: Eastbury	250	250	500

Find and Replace

Find what: Eastbury

Find All Find Next Close

Custom age range tool Sheet1 Single year of age

Select destination and press ENTER or choose Paste

11:34 11/10/2018

In order to find data for the two other wards, Eastbury and Gascoigne, you can use the Ctrl+F function.

Once found you can copy the same data for these two wards as you have for Abbey on to the analysis sheet.

# Step 2 - Analyse the data

The screenshot shows an Excel spreadsheet with the following data:

Year	Area Code	Borough	Area Name	Male	Female	Persons
2018	E0500002	Barking an	Abbey	200	200	450
2019	E0500002	Barking an	Abbey	250	200	450
2020	E0500002	Barking an	Abbey	250	250	500
2021	E0500002	Barking an	Abbey	300	250	550
2022	E0500002	Barking an	Abbey	300	250	550
2023	E0500002	Barking an	Abbey	300	300	600
2018	E0500003	Barking an	Eastbury	250	200	450
2019	E0500003	Barking an	Eastbury	250	200	450
2020	E0500003	Barking an	Eastbury	250	200	450
2021	E0500003	Barking an	Eastbury	250	250	500
2022	E0500003	Barking an	Eastbury	300	250	550
2023	E0500003	Barking an	Eastbury	300	250	550
2018	E0500003	Barking an	Gascoigne	350	300	650
2019	E0500003	Barking an	Gascoigne	350	300	700
2020	E0500003	Barking an	Gascoigne	400	350	750
2021	E0500003	Barking an	Gascoigne	400	400	800
2022	E0500003	Barking an	Gascoigne	450	400	900
2023	E0500003	Barking an	Gascoigne	500	450	950

Your sheet should now look like this – ready for analysis.

You will have 2018-2023 projects for 14-16 year olds in the three wards Abbey, Eastbury and Gascoigne.

# Data you already have and how to apply it to the projections.

As set out at the beginning, you know that of the 50 students who currently attend your afterschool club;

- 15 students are from the Albion ward
- 15 are from the Eastbury ward
- 20 are from the Gascoigne ward

We can use what we already know to analyse the projections we have for the next 5 years.

You can work out the percentage of 14-16 year olds you currently work with, from the total 14-16 year old population in each of the three wards and then apply this percentage to the projections in five years time to create an estimate of how many young people you could be working with by 2023.

It is important here to recognise the assumptions made in your analysis e.g. that the percentage of 14-16 year olds you are working with will stay the same. However as long as in presenting your findings you are clear that this is an estimation and set out your workings, it gives a solid indication of where your service may be in five years time.

Ward\_Housing\_led\_projection\_age\_range\_creator\_2016 [Compatibility Mode] - Excel

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SUM  $=I2/G2$

Year	Area Code	Borough	Area Name	Male	Female	Persons	Students who currently attend service	Percentage of total
2018	E0500002	Barking an Abbey		200	200	450		15
2019	E0500002	Barking an Abbey		250	200	450		
2020	E0500002	Barking an Abbey		250	250	500		
2021	E0500002	Barking an Abbey		300	250	550		
2022	E0500002	Barking an Abbey		300	250	550		
2023	E0500002	Barking an Abbey		300	300	600		
2018	E0500003	Barking an Eastbury		250	200	450	15	
2019	E0500003	Barking an Eastbury		250	200	450		
2020	E0500003	Barking an Eastbury		250	200	450		
2021	E0500003	Barking an Eastbury		250	250	500		
2022	E0500003	Barking an Eastbury		300	250	550		
2023	E0500003	Barking an Eastbury		300	250	550		
2018	E0500003	Barking an Gascoigne		350	300	650	20	
2019	E0500003	Barking an Gascoigne		350	300	700		
2020	E0500003	Barking an Gascoigne		400	350	750		
2021	E0500003	Barking an Gascoigne		400	400	800		
2022	E0500003	Barking an Gascoigne		450	400	900		
2023	E0500003	Barking an Gascoigne		500	450	950		

Custom age range tool Sheet1 Single year of age

In order to work out the % of the total 14-16 year olds you currently work with, you divide the number you work with by the total number of persons in the borough, as shown in cell J2.

As you can see I have added in columns to include the data we already know about each area.

Ward\_Housing\_led\_projection\_age\_range\_creator\_2016 [Compatibility Mode] - Excel

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14

Year	Area Code	Borough	Area Name	Male	Female	Persons	Students who currently attend	Percentage of total
2018	E0500002	Barking an	Abbey	200	200	400	15	3.75%
2019	E0500002	Barking an	Abbey	250	200	450		0.00%
2020	E0500002	Barking an	Abbey	250	250	500		0.00%
2021	E0500002	Barking an	Abbey	300	250	550		0.00%
2022	E0500002	Barking an	Abbey	300	250	550		0.00%
2023	E0500002	Barking an	Abbey	300	300	600		0.00%
2018	E0500003	Barking an	Eastbury	250	200	450	15	3.33%
2019	E0500003	Barking an	Eastbury	250	200	450		0.00%
2020	E0500003	Barking an	Eastbury	250	200	450		0.00%
2021	E0500003	Barking an	Eastbury	250	250	500		0.00%
2022	E0500003	Barking an	Eastbury	300	250	550		0.00%
2023	E0500003	Barking an	Eastbury	300	250	550		0.00%
2018	E0500003	Barking an	Gascoigne	350	300	650	20	3.08%
2019	E0500003	Barking an	Gascoigne	350	300	700		0.00%
2020	E0500003	Barking an	Gascoigne	400	350	750		0.00%
2021	E0500003	Barking an	Gascoigne	400	400	800		0.00%
2022	E0500003	Barking an	Gascoigne	450	400	900		0.00%
2023	E0500003	Barking an	Gascoigne	500	450	950		0.00%

400 Sheet1 Sheet2 Single year of age

Ready

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You can now copy the sum done in cell J2 down to the cells below to work out the % for the two other wards.

J9 and J16 now reflect the % of the total 14-16 in these two wards attend the afterschool club.

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SUM

Year	Area Code	Borough	Area Name	Male	Female	Persons	Students who currently attend	Percentage of total
2018	E0500002	Barking an Abbey		200	200	400	15	3.75%
2019	E0500002	Barking an Abbey		250	200	450		0.00%
2020	E0500002	Barking an Abbey		250	250	500		0.00%
2021	E0500002	Barking an Abbey		300	250	550		0.00%
2022	E0500002	Barking an Abbey		300	250	550		0.00%
2023	E0500002	Barking an Abbey		300	300	600		0.00%
2018	E0500003	Barking an Eastbury		250	200	450	15	3.33%
2019	E0500003	Barking an Eastbury		250	200	450		0.00%
2020	E0500003	Barking an Eastbury		250	200	450		0.00%
2021	E0500003	Barking an Eastbury		250	250	500		0.00%
2022	E0500003	Barking an Eastbury		300	250	550		0.00%
2023	E0500003	Barking an Eastbury		300	250	550		0.00%
2018	E0500003	Barking an Gascoigne		350	300	650	20	3.08%
2019	E0500003	Barking an Gascoigne		350	300	700		0.00%
2020	E0500003	Barking an Gascoigne		400	350	750		0.00%
2021	E0500003	Barking an Gascoigne		400	400	800		0.00%
2022	E0500003	Barking an Gascoigne		450	400	900		0.00%
2023	E0500003	Barking an Gascoigne		500	450	950		0.00%

400 Sheet1 Sheet2 Single year of age

Enter

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The next step is to apply this percentage to the population projections for the next 5 years.

To do this you need to, as shown in cell I3, divide the years total persons projection by 100 and then multiply that by 3.75%. Make sure you include the brackets or the formula will not work.

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SUM  $\times$   $\checkmark$   $fx$   $=(G3/100)*3.75$

Year	Area Code	Borough	Area Name	Male	Female	Persons	Students who currently attend	Percentage of total
2018	E0500002	Barking an Abbey		200	200	400	15	3.75%
2019	E0500002	Barking an Abbey		250	200	450	$=(G3/100)*3.75$	3.75%
2020	E0500002	Barking an Abbey		250	250	500	18.75	3.75%
2021	E0500002	Barking an Abbey		300	250	550	20.625	3.75%
2022	E0500002	Barking an Abbey		300	250	550	20.625	3.75%
2023	E0500002	Barking an Abbey		300	300	600	22.5	3.75%
2018	E0500003	Barking an Eastbury		250	200	450	15	3.33%
2019	E0500003	Barking an Eastbury		250	200	450	450	100.00%
2020	E0500003	Barking an Eastbury		250	200	450		0.00%
2021	E0500003	Barking an Eastbury		250	250	500		0.00%
2022	E0500003	Barking an Eastbury		300	250	550		0.00%
2023	E0500003	Barking an Eastbury		300	250	550		0.00%
2018	E0500003	Barking an Gascoigne		350	300	650	20	3.08%
2019	E0500003	Barking an Gascoigne		350	300	700		0.00%
2020	E0500003	Barking an Gascoigne		400	350	750		0.00%
2021	E0500003	Barking an Gascoigne		400	400	800		0.00%
2022	E0500003	Barking an Gascoigne		450	400	900		0.00%
2023	E0500003	Barking an Gascoigne		500	450	950		0.00%

400 Sheet1 Sheet2 Single year of age

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You can then copy this formula into the cells below, by dragging from the bottom right hand corner of cell I3.

This will calculate 3.75% of the total persons for the next 5 years.



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125

Year	Area Code	Borough	Area Name	Male	Female	Persons	Students who currently attend	Percentage of total
2018	E0500002	Barking an Abbey		200	200	400	15	3.75%
2019	E0500002	Barking an Abbey		250	200	450	16.875	3.75%
2020	E0500002	Barking an Abbey		250	250	500	18.75	3.75%
2021	E0500002	Barking an Abbey		300	250	550	20.625	3.75%
2022	E0500002	Barking an Abbey		300	250	550	20.625	3.75%
2023	E0500002	Barking an Abbey		300	300	600	22.5	3.75%
2018	E0500003	Barking an Eastbury		250	200	450	15	3.33%
2019	E0500003	Barking an Eastbury		250	200	450	15	3.33%
2020	E0500003	Barking an Eastbury		250	200	450	15	3.33%
2021	E0500003	Barking an Eastbury		250	250	500	17	3.33%
2022	E0500003	Barking an Eastbury		300	250	550	18	3.33%
2023	E0500003	Barking an Eastbury		300	250	550	18	3.33%
2018	E0500003	Barking an Gascoigne		350	300	650	20	3.08%
2019	E0500003	Barking an Gascoigne		350	300	700	21.56	3.08%
2020	E0500003	Barking an Gascoigne		400	350	750	23.1	3.08%
2021	E0500003	Barking an Gascoigne		400	400	800	24.64	3.08%
2022	E0500003	Barking an Gascoigne		450	400	900	27.72	3.08%
2023	E0500003	Barking an Gascoigne		500	450	950	29.26	3.08%

400 Sheet1 Sheet2 Single year of age

Repeat this for the other two wards.

Make sure you change the percentage to reflect the differences in each ward. And copy for all five years.

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SUM  $=22.5+18+29.5$

Year	Area Code	Borough	Area Name	Male	Female	Persons	Number of students of will attend	Percentage of total	
2018	E0500002	Barking an Abbey		200	200	400	15	3.75%	
2019	E0500002	Barking an Abbey		250	200	450	16.875	3.75%	
2020	E0500002	Barking an Abbey		250	250	500	18.75	3.75%	
2021	E0500002	Barking an Abbey		300	250	550	20.625	3.75%	
2022	E0500002	Barking an Abbey		300	250	550	20.625	3.75%	
2023	E0500002	Barking an Abbey		300	300	600	22.5	3.75%	
2018	E0500003	Barking an Eastbury		250	200	450	15	3.33%	
2019	E0500003	Barking an Eastbury		250	200	450	15	3.33%	
2020	E0500003	Barking an Eastbury		250	200	450	15	3.33%	
2021	E0500003	Barking an Eastbury		250	250	500	17	3.33%	
2022	E0500003	Barking an Eastbury		300	250	550	18	3.33%	
2023	E0500003	Barking an Eastbury		300	250	550	18	3.33%	
2018	E0500003	Barking an Gascoigne		350	300	650	20	3.08%	
2019	E0500003	Barking an Gascoigne		350	300	700	21.56	3.08%	
2020	E0500003	Barking an Gascoigne		400	350	750	23.1	3.08%	
2021	E0500003	Barking an Gascoigne		400	400	800	24.64	3.08%	
2022	E0500003	Barking an Gascoigne		450	400	900	27.72	3.08%	
2023	E0500003	Barking an Gascoigne		500	450	950	29.26	3.08%	
Current total							50	Current Number of staff	10
2023 estimated increase							=22.5+18+29.5	Staff needed by 2023	14

400 Sheet1 Sheet2 Single year of age

Edit 100%

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Now you have the estimated totals of 14-16 year olds who may attend your service in 2023.

Then through a simple addition sum, you can see the estimates predict an increase in the total of 20 students.

This means that you would need an additional 14 staff.