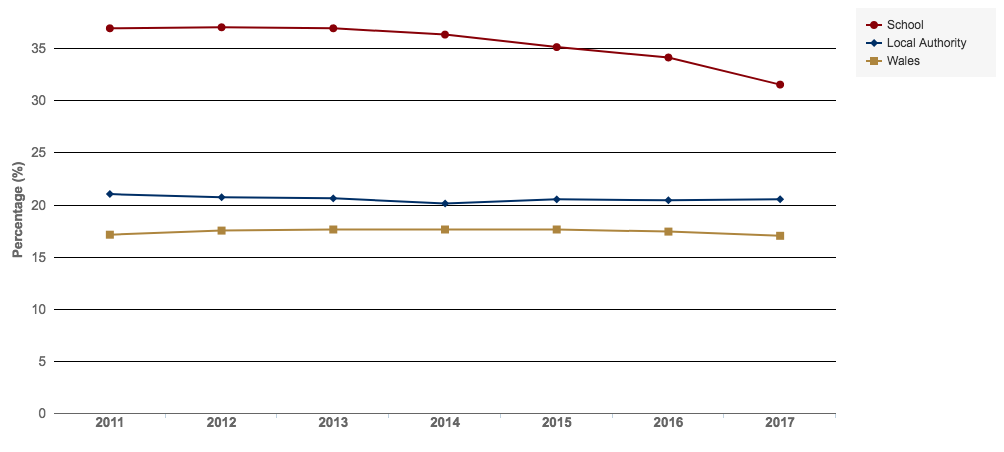


**Local Schools**

To begin with I looked at the local schools. The information I used was from the my local school website (<http://mylocalschool.gov.wales/School/6814035?lang=en> ). The local Secondary school is Fitzalan High School. There is another secondary school nearby but the data is unreliable and it is due to close down soon, so I have left it out of my analysis. I also looked at the local primary schools. There are 12 primary schools in the area that the SRCDC works in, which I compare to the rest of the primary schools in Cardiff.

**Secondary Schools**

Directly from the website, we can see that Fitzalan school has many more students on free school meals (FSM) than the Cardiff (the local authority) average. We can also see that more than 40% of the students speak English as an additional language, much higher than the Cardiff average. More than 80% of the school students are of minority ethnic backgrounds.



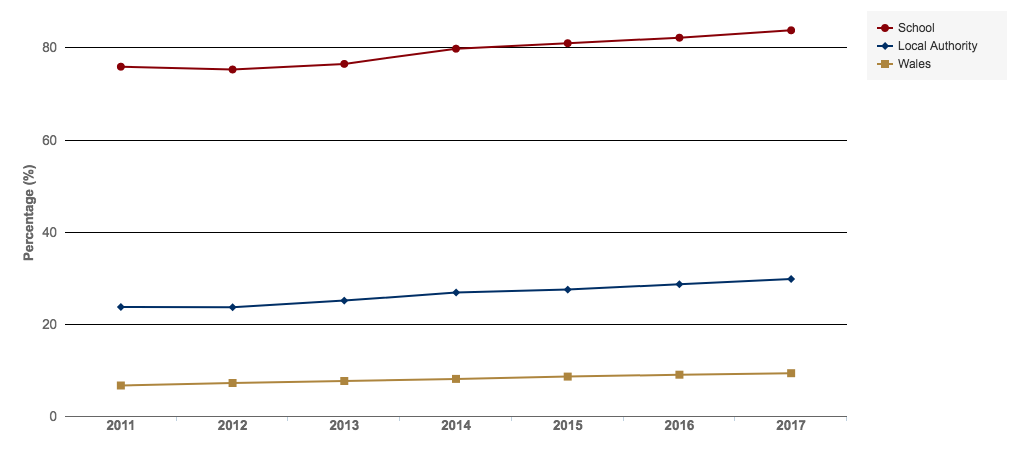
**Fig.** This shows the number of students on free school meals at Fitzalan Secondary School, which is the nearest secondary school to the areas we are studying. While the number of students on free school meals is falling in recent years, it is still well above the local authority and Wales averages.

( <http://mylocalschool.wales.gov.uk/School/6814042?lang=en> )

**Percentage of Students on Free School Meals at Fitzalan Secondary School**

**Introduction**

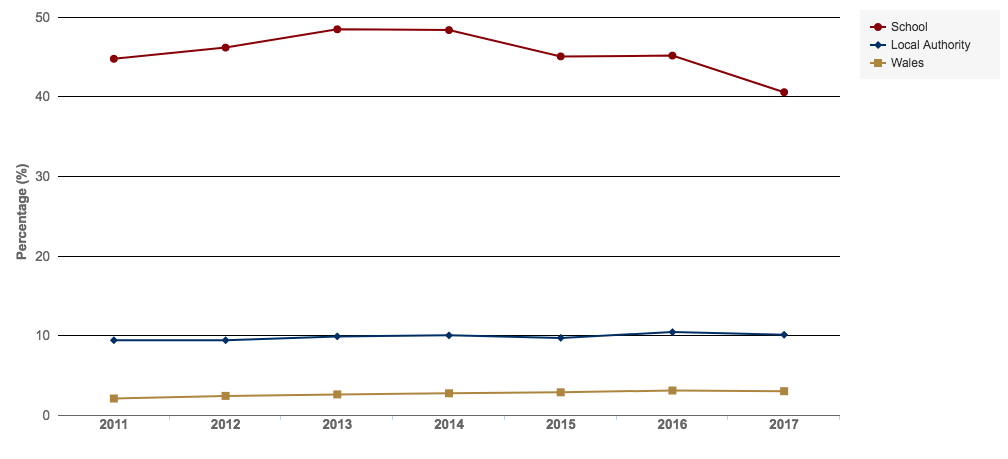
**Study of Poverty and Deprivation in the Canton, Grangetown, and Riverside areas in Cardiff**



**Percentage of Students of Minority Ethnic Background at Fitzalan Secondary School**

**Fig.** This figure shows the percentage of students at Fitzalan Secondary School who responded that their ethnic background was anything other than white-British. This excludes students whom there is no data or who preferred not to say. The percentage of minority ethnic students at this school is 9x the average for Wales

( <http://mylocalschool.wales.gov.uk/School/6814042?lang=en> )

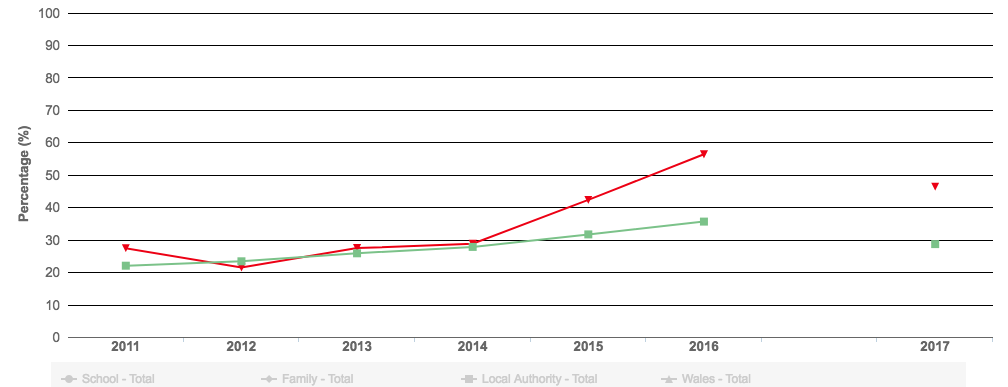
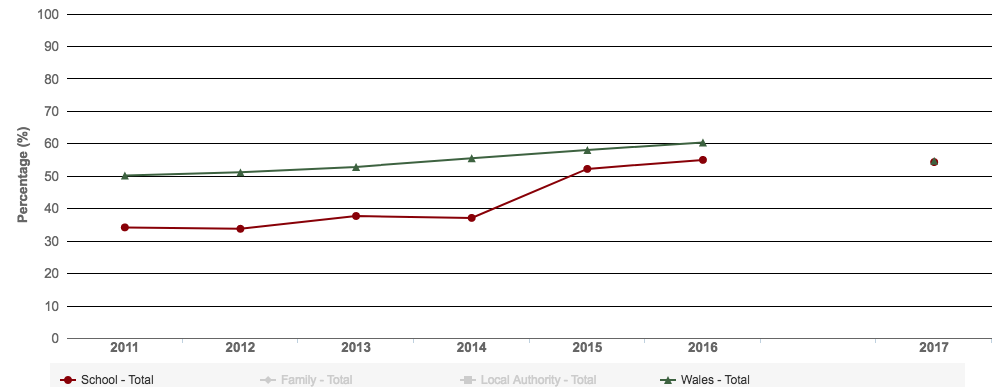


**Percentage of Students with English as an Additional Language at Fitzalan Secondary School**

**Fig.** Shown here is the percentage of students at Fitzalan Secondary School with English as an Extra Language (EAL). The percentage of EAL students is more than 10x the average for Wales. ( <http://mylocalschool.wales.gov.uk/School/6814042?lang=en> )

The plots below show the percentage of students who achieved a grade A\*-C in the subject listed. The coloured bars indicate quartile ranges for schools with a similar number of students on free school meals. The level 2 performance is the percentage of pupils who achieved at least 5 A\*-C GCSE grades, including Maths and English (note that the 2017 measurement cannot be compared to earlier years due to a change in how it was measured). What these plots show is that Fitzalan school is performing very well when compared to other schools in areas that are as deprived.

The following plot shows the level 2 performance for the school compared to the Welsh average, and also the level 2 performance of students on free school meals compared to the Welsh average. What this shows is that the school is overall performing worse than average for Wales, but students on free school meals are performing better than expected.



**Percentage of Pupils Achieving the Level 2 Threshold**

**Percentage of FSM Pupils Achieving the Level 2 Threshold**

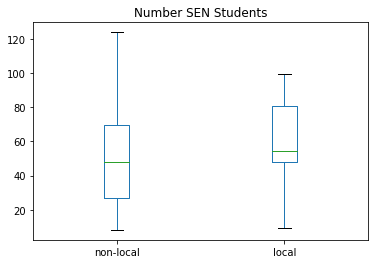
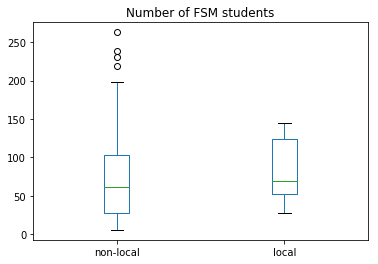
**Fig.** The top plot is the percentage of students at Fitzalan Secondary School attaining the level 2 threshold (including a GCSE in English/Welsh and Maths). Below a plot showing the percentage of FSM students attaining the level 2 threshold. Red lines indicate the school, green lines indicate the Welsh average. As you can see, the school overall is below the Welsh average, but is performing very well for its FSM students. (Direct comparisons to 2017 cannot be made as the way the measure is calculated have changed). (<http://mylocalschool.wales.gov.uk/School/6814042?lang=en> )

After looking through the data on Fitzalan school, I scraped the data for every school in Cardiff to allow a statistical comparison. Looking more closely at the free school meals data, we can see that Fitzalan school has many more students on free school meals than any other school in Cardiff, as the figure below shows. In fact, Fitzalan school has just under 9% of secondary school students in Cardiff, but approximately 14% of FSM students in Cardiff go to Fitzalan school.

I then looked at the number of students with special educational needs (SEN). There are several different levels of SEN, so I focused on ‘school-action’, meaning that the school has had to provide some kind of intervention to help a student with SEN. The plot below shows the number of SEN students at each secondary school in Cardiff. It shows that Fitzalan school has the joint most SEN students of any secondary school in Cardiff in 2017.

In fact, Fitzalan school has over 1 in 3 of all EAL secondary school students in Cardiff, as shown in the pie chart (right).

The SRCDC provides English lessons to citizens of the local area, so I looked at the number of students at Fitzalan school who speak English as an Additional Language (EAL). The results are plotted below. You can see that Fitzalan school has by far the most EAL students of any school in Cardiff.



**Primary Schools**

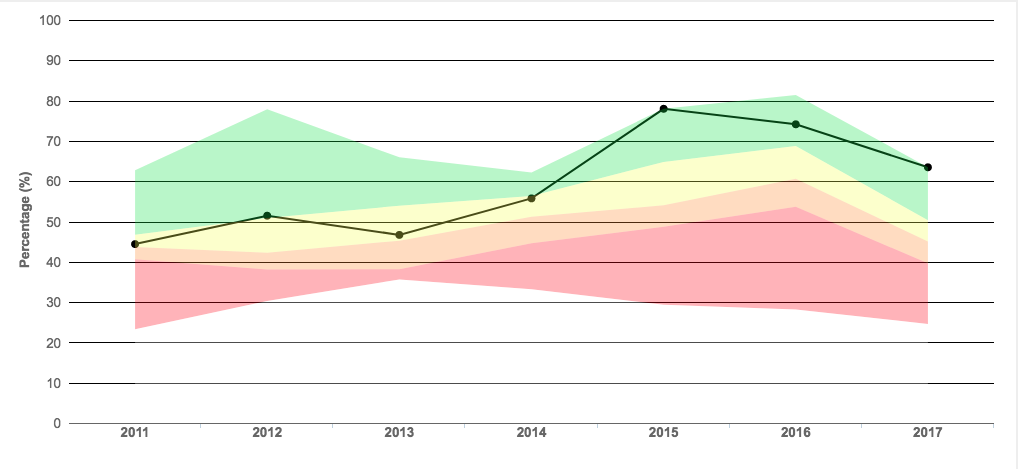
There are 12 local primary schools. These are:

1. Severn Primary
2. St. Mary's R.C. Primary School
3. St.Paul's C/W Primary School
4. Grangetown Primary School
5. St Patrick's R C School
6. Ysgol Gynradd Gymraeg
7. Hamadryad Ninian Park Primary School
8. Kitchener Primary School
9. Radnor Primary School
10. Lansdowne Primary School
11. Ysgol Treganna
12. Ysgol Gymraeg Pwll Coch

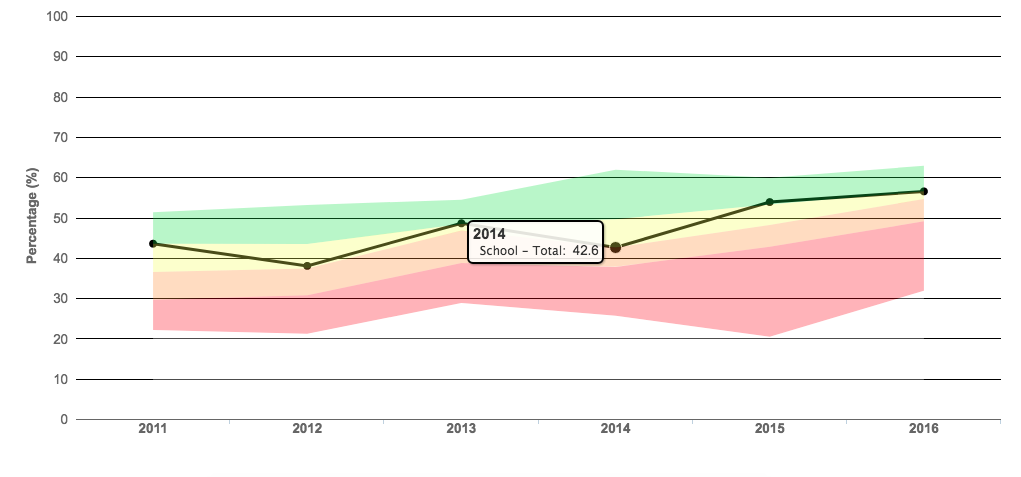
Given that the local secondary school has a high number of students on FSM and with SEN, it is quite surprising that the local primary schools to not appear to be particularly unusual in these respects, as shown by the box plots below.

Fitzalan school takes students from more primary schools than just the local 12, so I looked into the primary schools in the nearby area of Ely. As the charts below show, it is an area with many students on FSM and SEN. This suggests that many of the most deprived students at Fitzalan school are from Ely.

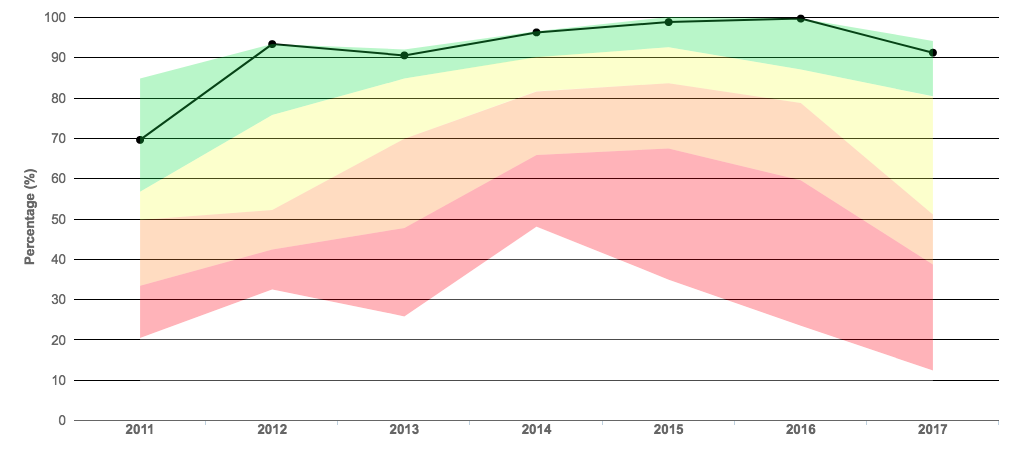
We see the same trend in EAL students in the local primary schools as we saw in Fitzalan Secondary School. Many of the Cardiff primary schools with the most EAL students are from the local area, as the bar chart below shows. In fact, about 31% of all EAL primary school students in Cardiff are from the local area.



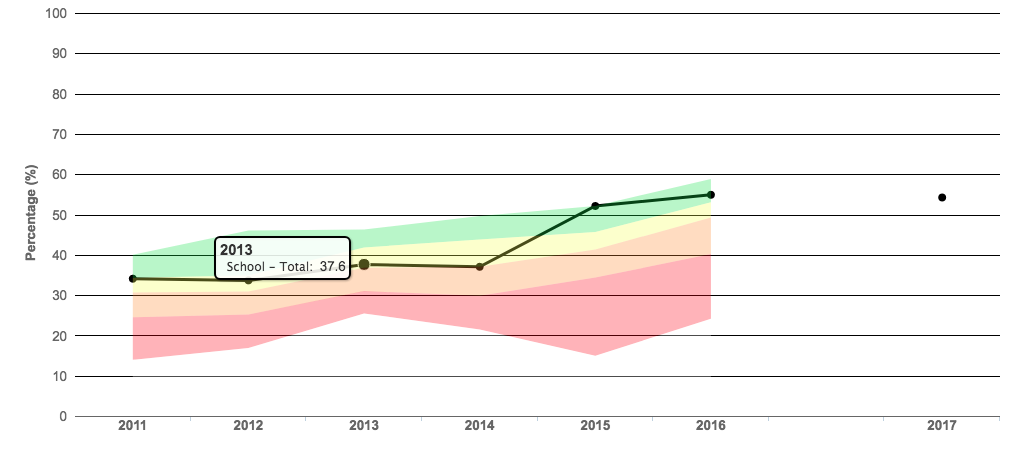
**English Performance**



**Maths Performance**



**Science Performance**



**Level 2 Performance**

**Fig.** The first three plots show the percentage of pupils at Fitzalan Secondary School achieving grade A\*-C in English, Maths, and Science respectively. The coloured bars indicate quartile ranges for schools with a similar number of students on free school meals in the UK. The final plot shows the percentage of pupils achieving the level 2 threshold. This means they achieved the equivalent of five A\*-C GCSE grades, including Maths and English/Welsh. Note that this indicator has been changed for 2017, so direct comparison to previous years is not possible. All of these indicators suggest that the school is performing very well given the level of deprivation in the area. (<http://mylocalschool.wales.gov.uk/School/6814042?lang=en> )