

# Supporting Nursing students at Coventry University

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**13<sup>th</sup> in Guardian  
University Guide 2019**  
of 121 UK institutions ranked

**2<sup>nd</sup> in UK for Teaching  
Excellence (TEF)**  
Times Higher Education metrics  
ranking 2017 - Gold winner

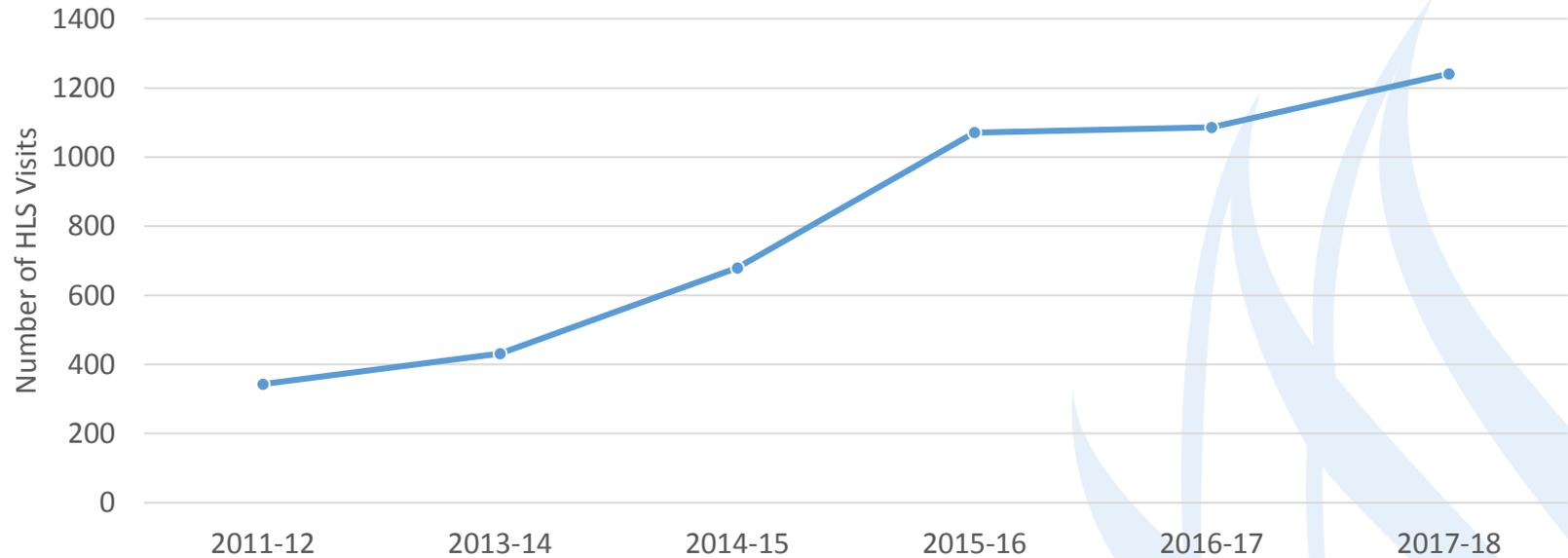
**6<sup>th</sup> for Student  
Experience**  
The Times and Sunday Times  
Good University Guide 2018

**Queen's Award  
for Enterprise**  
International Trade 2015

# 2017-18 Academic Year

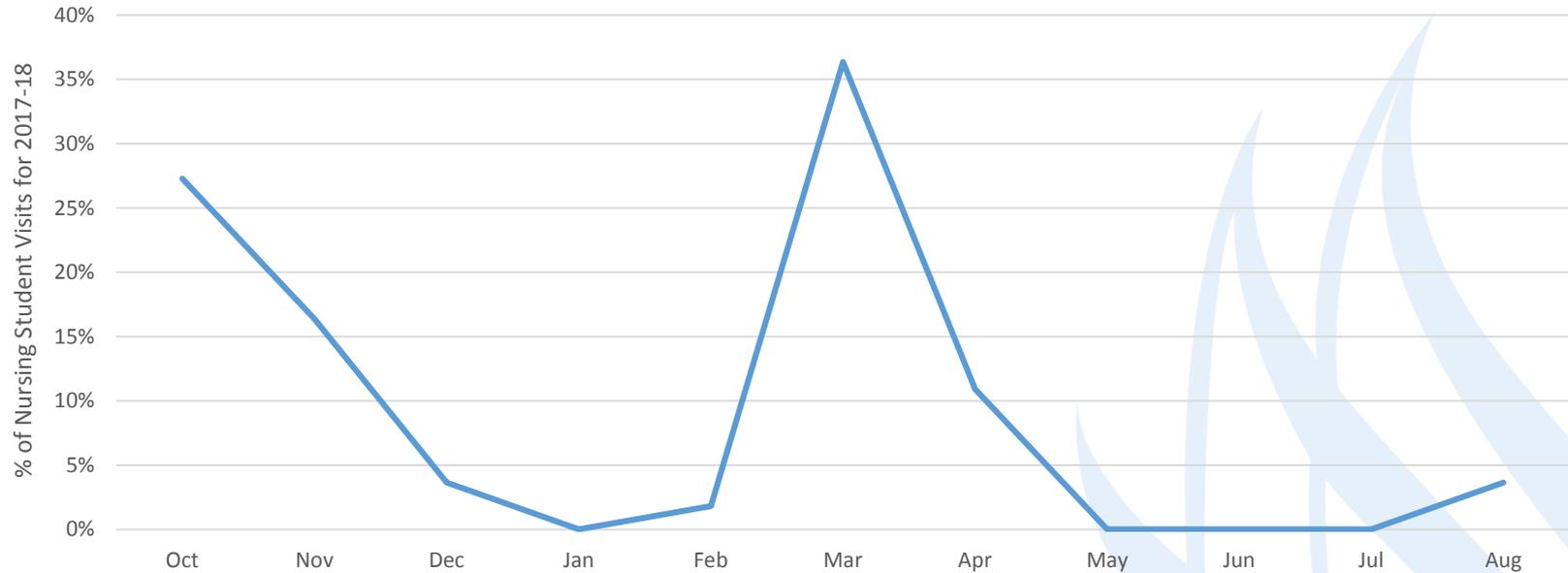
- 9 undergraduate nursing courses, 2 postgraduate courses
- Formal teaching from faculty staff
- Single intervention session from **sigma** staff (on 3 courses)
- Quick introduction during first lecture about the **sigma** Maths Support Centre
- No support from faculty members within the **sigma** Maths Support Centre

# 2017-18 Academic Year



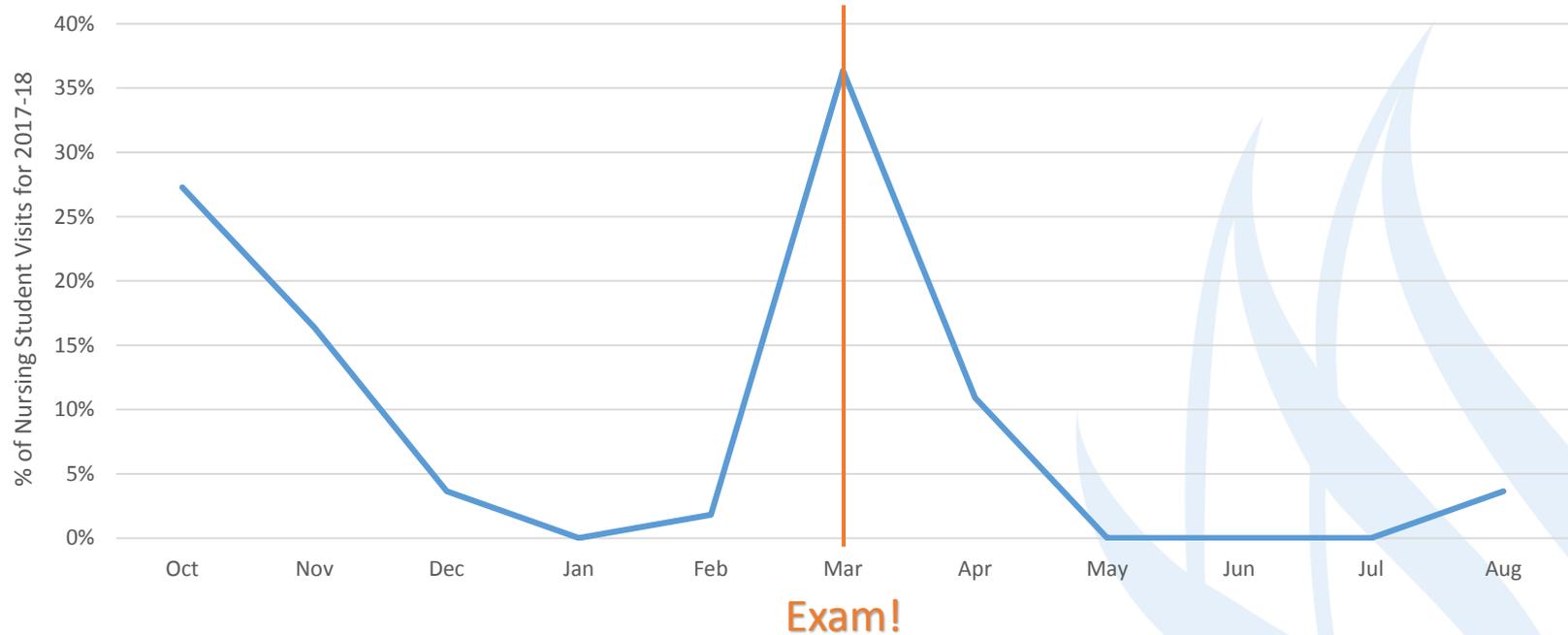
# 2017-18 Academic Year

## Nursing Student Visits 2017-18



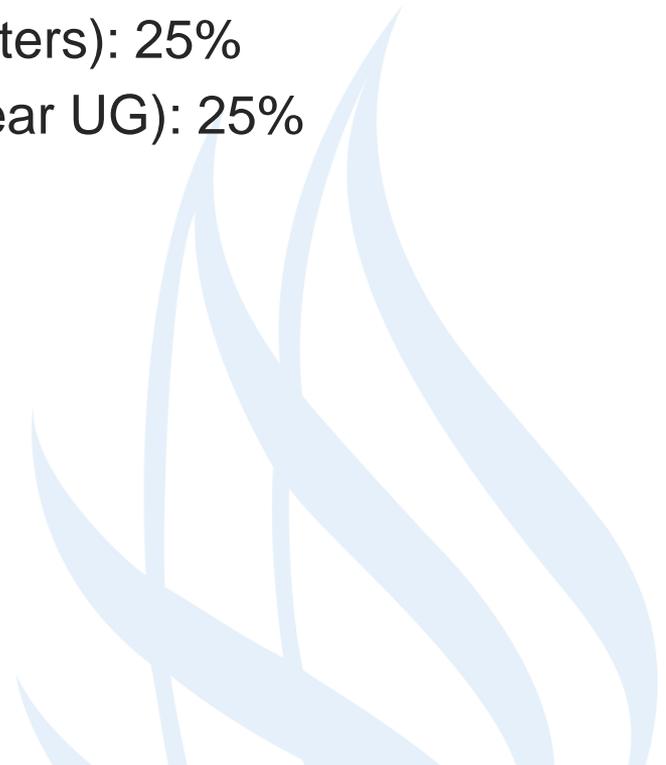
# 2017-18 Academic Year

## Nursing Student Visits 2017-18



# 2017-18 Academic Year

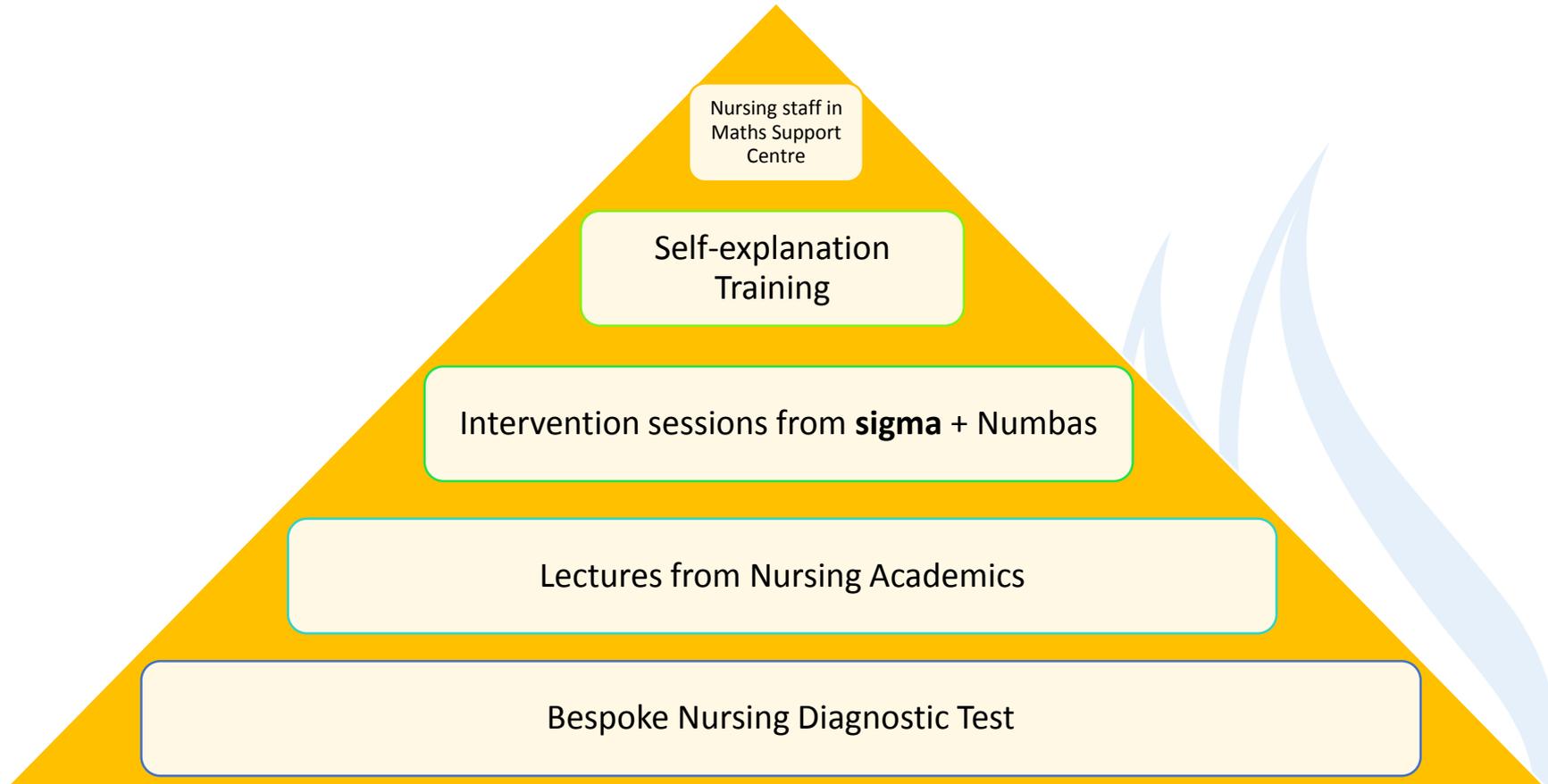
- Failure rate due to not passing calculation exam:
  - Non Medical Prescribing (Final Year Masters): 25%
  - Community Nursing Prescribing (Final Year UG): 25%
  - Adult Nursing (1<sup>st</sup> Year UG): No test



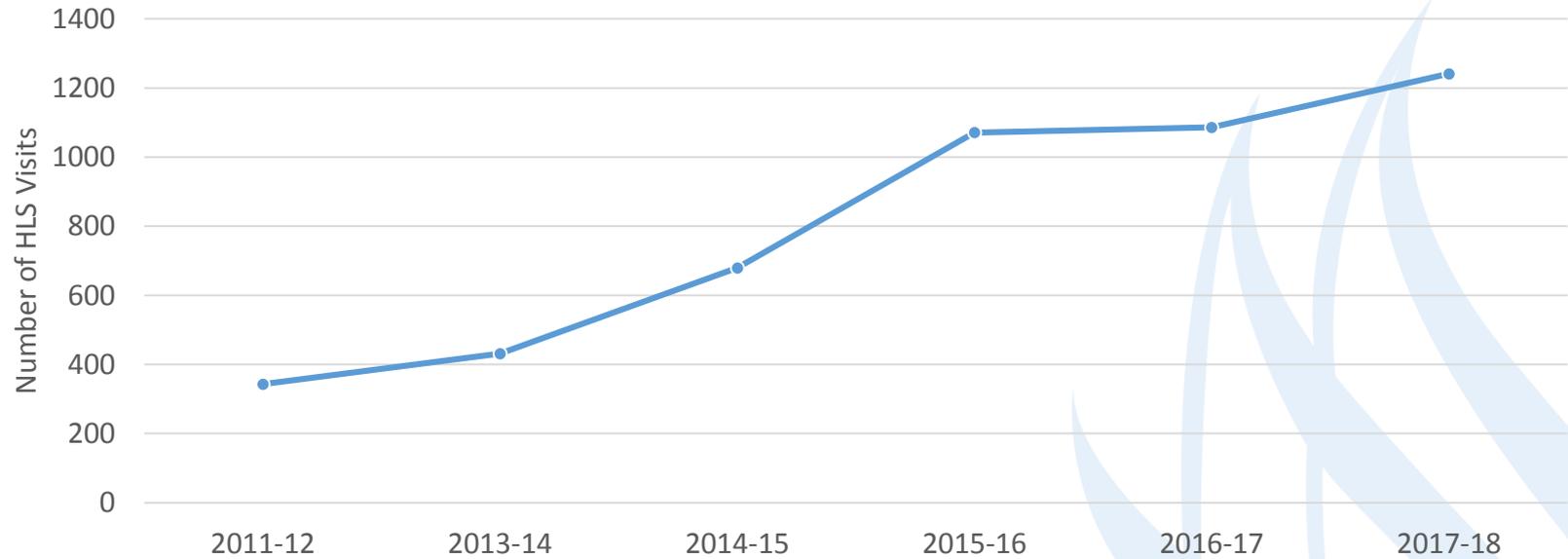
# Changes for 2018-19

- New bespoke Nursing Diagnostic Test given to students in their first week of lectures
- Self-explanation training booklet to guide them on unpicking the mathematics within a question
- Continuation and expansion of intervention sessions provided by **sigma** to reach more students and more nursing courses
- Interactive Numbas questions for an unlimited bank of practise questions
- In return, Nursing academic staff provide us with 5 hours a week in the Maths Support Centre to increase awareness and remove any nervousness

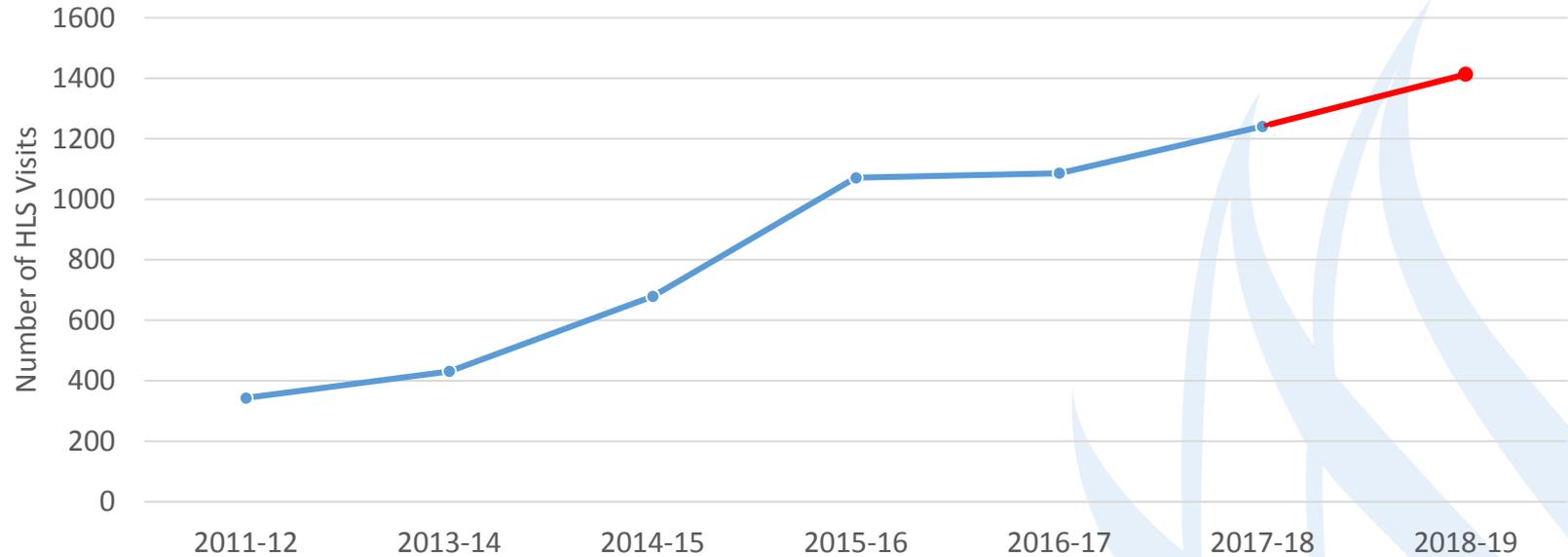
# Changes for 2018-19



# 2018-19 Results

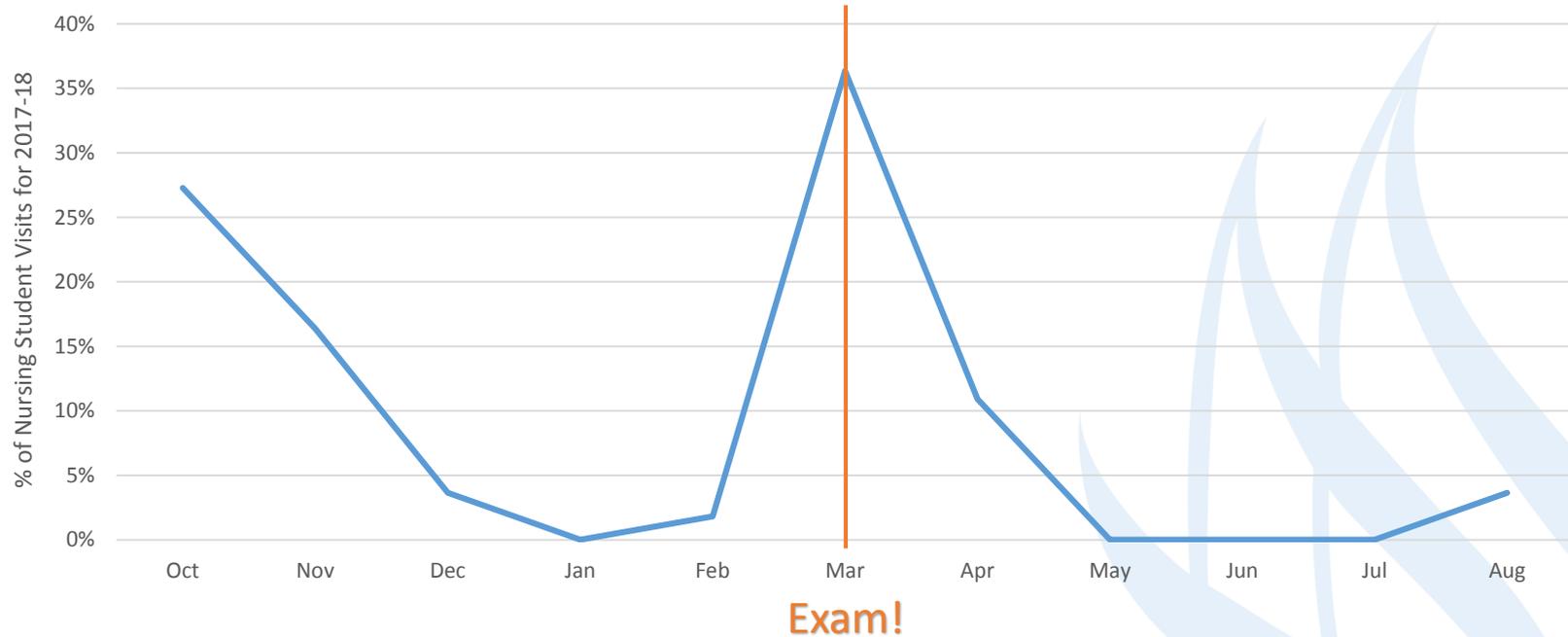


# 2018-19 Results



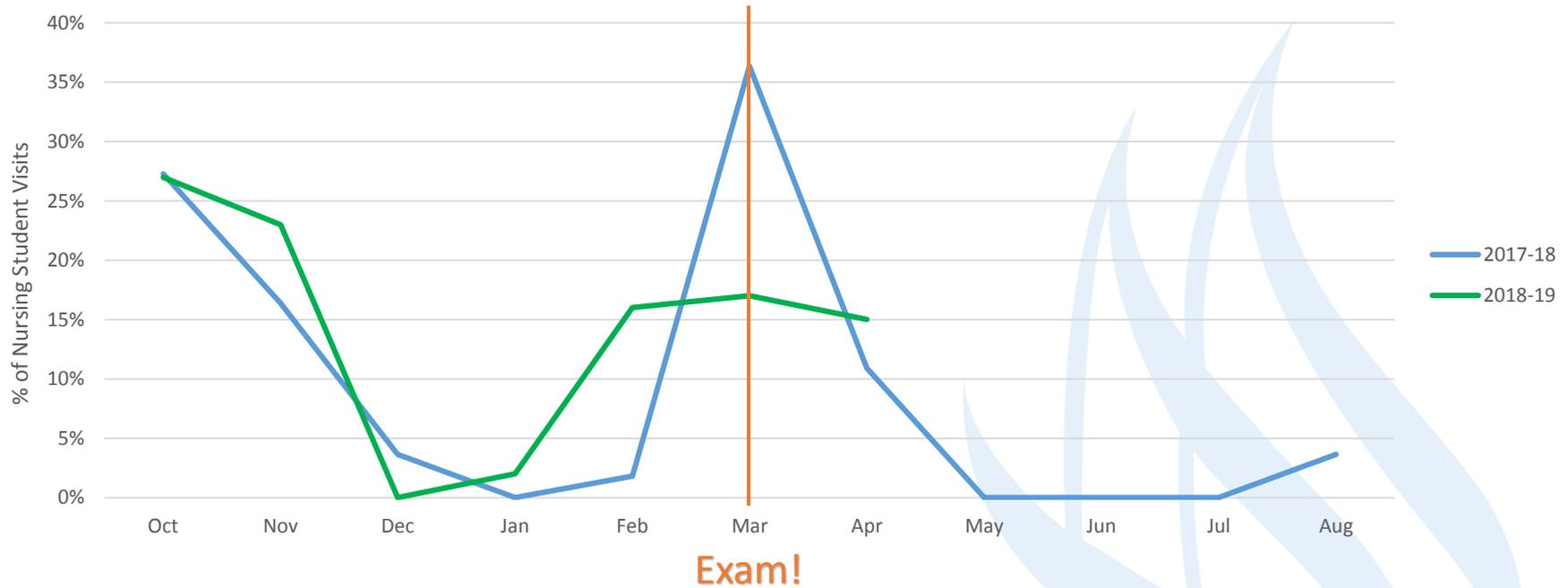
# 2018-19 results

## Nursing Student Visits 2017-18

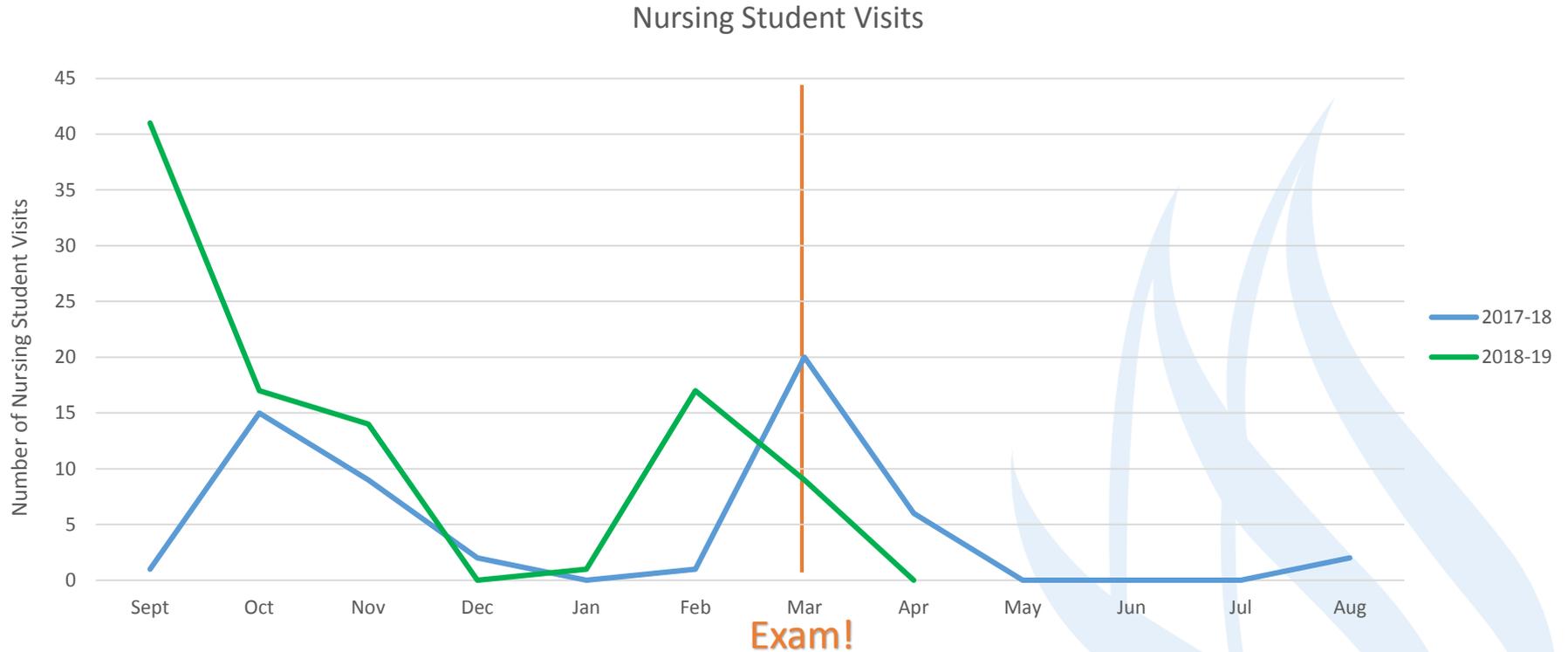


# 2018-19 results

### Nursing Student Visits 2017-18

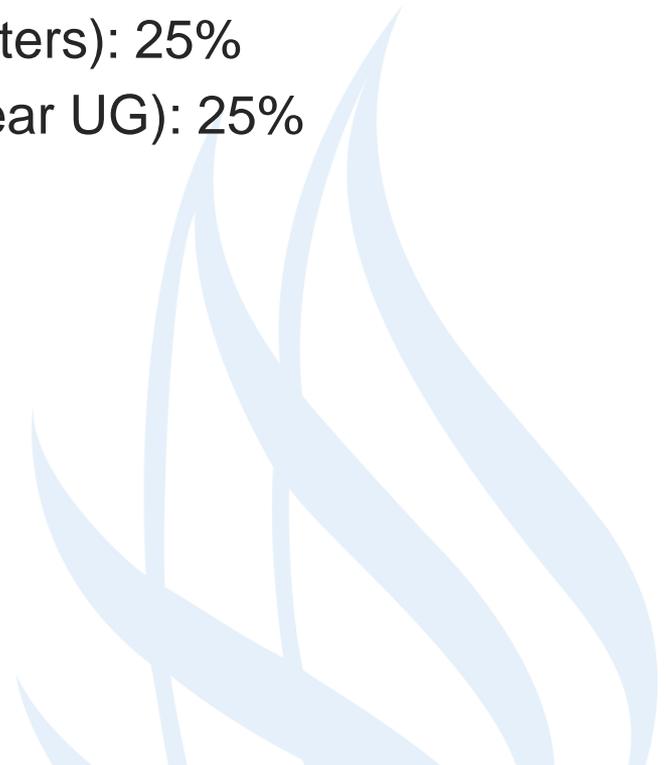


# 2018-19 results



# 2018-19 results

- Failure rate due to not passing calculation exam:
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  - Community Nursing Prescribing (Final Year UG): 25%
  - Adult Nursing (1<sup>st</sup> Year UG): No test



# 2018-19 results

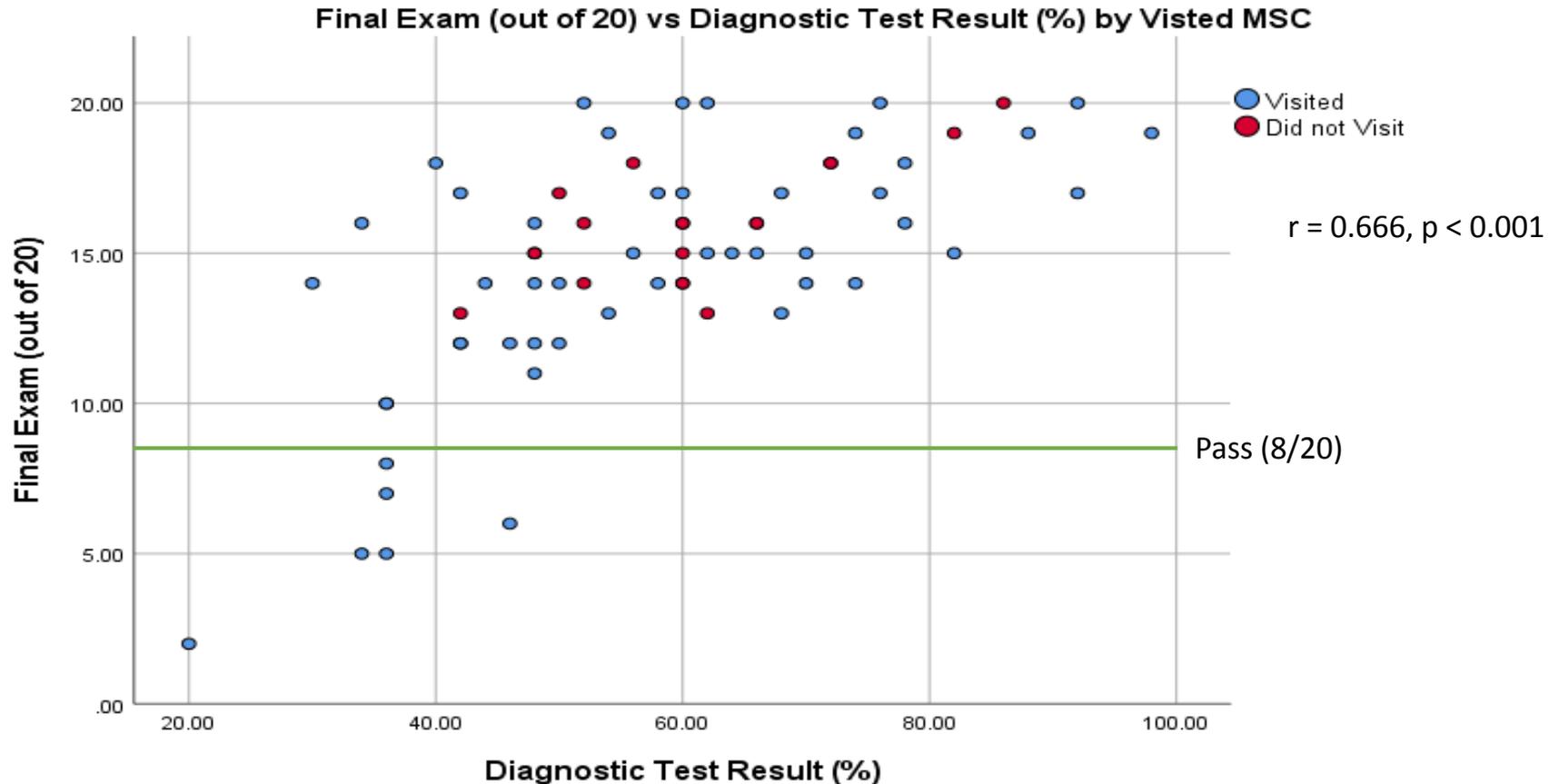
- Failure rate due to not passing calculation exam (2017-18):
  - Non Medical Prescribing (Final Year Masters): 25%
  - Community Nursing Prescribing (Final Year UG): 25%
  - Adult Nursing (1<sup>st</sup> Year UG): No test
- Failure rate due to not passing calculation exam (2018-19):
  - Non Medical Prescribing (Final Year Masters): 11.4%
  - Community Nursing Prescribing (Final Year UG): <1% (1 person!)
  - Adult Nursing (1<sup>st</sup> Year UG): 9%

# 2018-19 results

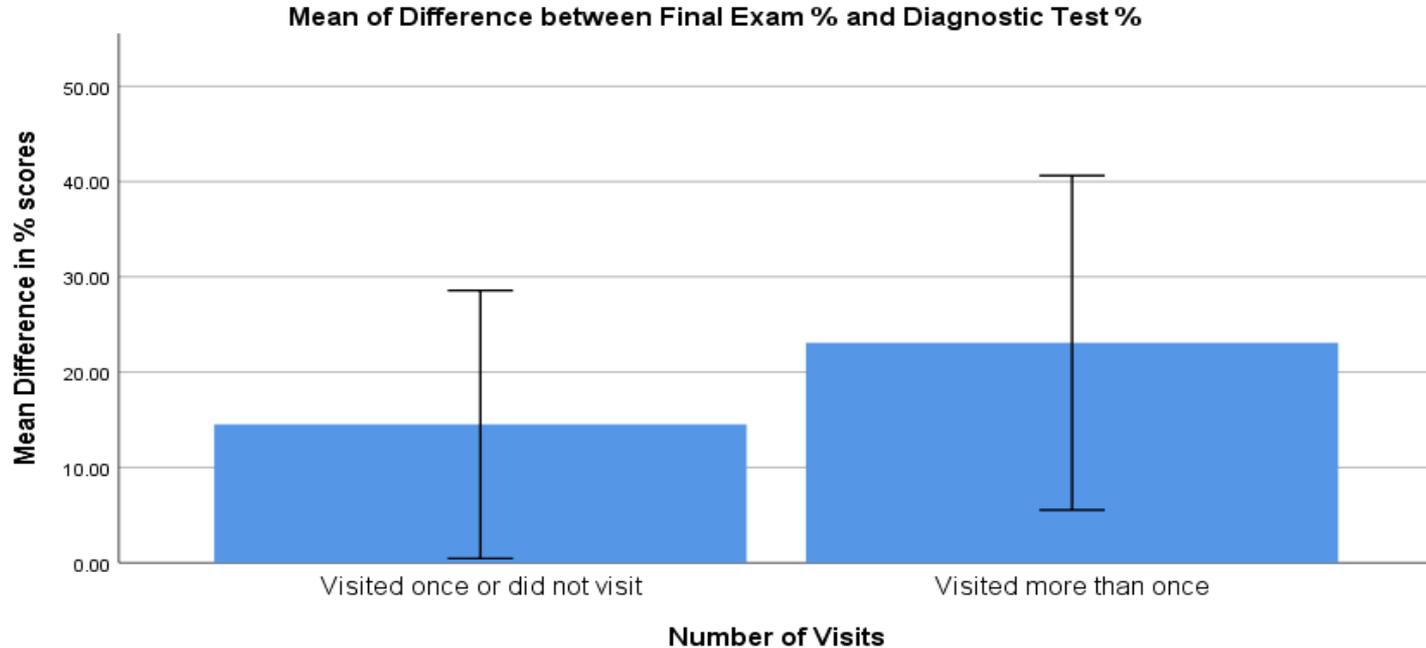
- Diagnostic Test results:

Course	Basic Arithmetic (12)	Budgeting & Problem Solving (5)	Further Arithmetic (19)	Using Formulas & Algebra (8)	Conversions & Drug Calculations (6)	Total (50)
Adult Nursing	8.3	3.2	10.1	3.8	2.3	55%
Community Nursing	7.2	4	8.8	4.6	3.1	55%
Mental Health Nursing	8.6	3.3	10.3	3.7	2.3	56%
NMP	8.3	3.8	10.9	4.9	3.3	62%
Midwifery	9.1	3.3	10.8	4.4	2.9	61%
Paramedics	8.3	3.5	10.9	4.3	2.6	59%
TNA	9.2	3.9	9.3	4.7	2.7	60%

# Adult Nursing (1<sup>st</sup> year) statistics



# Adult Nursing (1<sup>st</sup> year) statistics



$t(65) = 1.829, p = 0.072$

# Going forward

- Although described as “painful” by some students, they appreciate the diagnostic test – we plan to put this online so it can be done before they arrive
- Analysis of test results vs visits to centre and diagnostic test result to see if there are any trends for all nursing courses
- Continue quid-pro-quo method of support with hopefully more tutors from HLS to encourage their students to come and get support