



LEEDS
BECKETT
UNIVERSITY

Citation:

Heeson, SJA (2020) Vexed by Visualisation: Putting it into Perspective. In: Northern Collaboration Content Special Interest Group Learning Exchange: Content Provision for the Future - Inclusivity and Personalisation, 03 March 2020 - 03 March 2020, University of Manchester. (Unpublished)

Link to Leeds Beckett Repository record:

<https://eprints.leedsbeckett.ac.uk/id/eprint/6996/>

Document Version:

Conference or Workshop Item (Published Version)

The aim of the Leeds Beckett Repository is to provide open access to our research, as required by funder policies and permitted by publishers and copyright law.

The Leeds Beckett repository holds a wide range of publications, each of which has been checked for copyright and the relevant embargo period has been applied by the Research Services team.

We operate on a standard take-down policy. If you are the author or publisher of an output and you would like it removed from the repository, please [contact us](#) and we will investigate on a case-by-case basis.

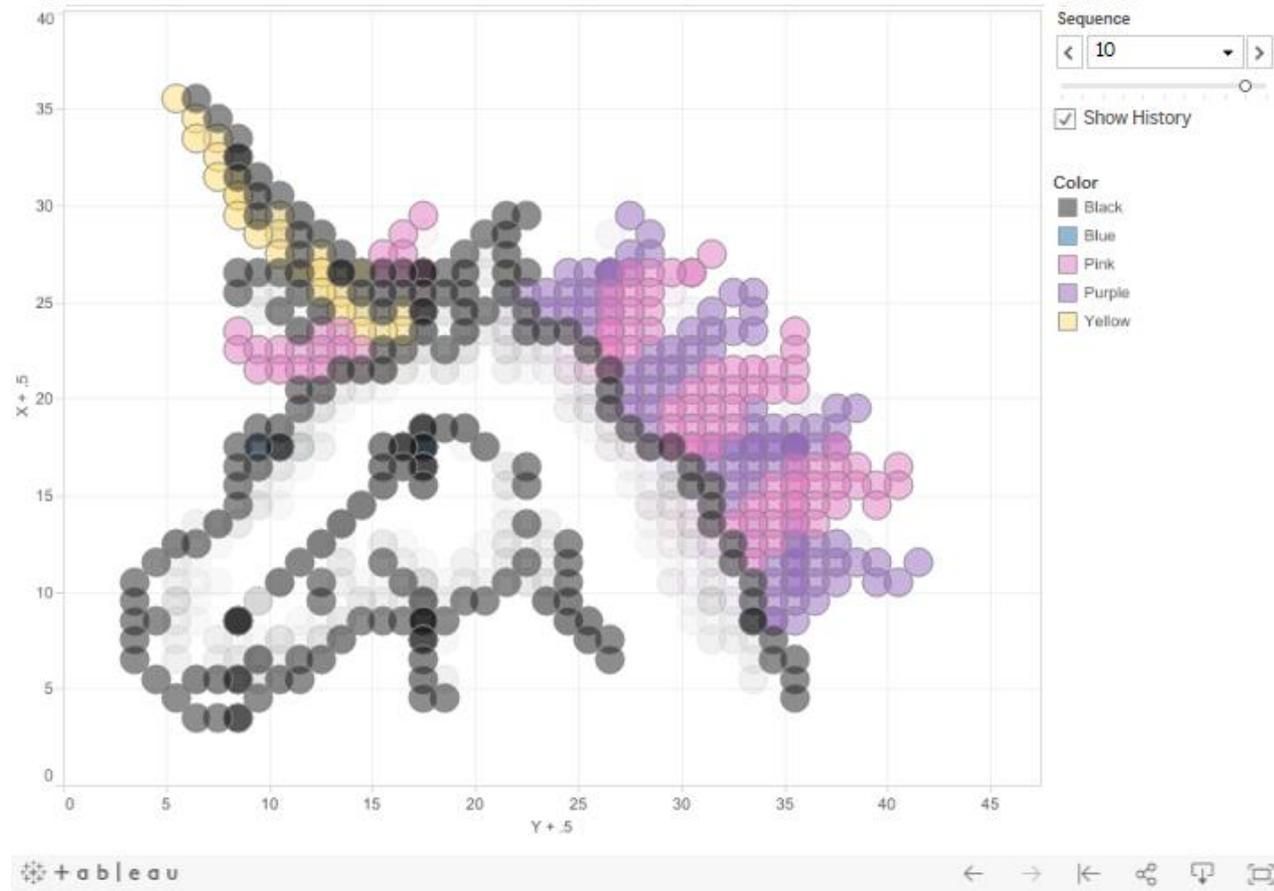
Each thesis in the repository has been cleared where necessary by the author for third party copyright. If you would like a thesis to be removed from the repository or believe there is an issue with copyright, please contact us on openaccess@leedsbeckett.ac.uk and we will investigate on a case-by-case basis.

Vexed by Visualisation

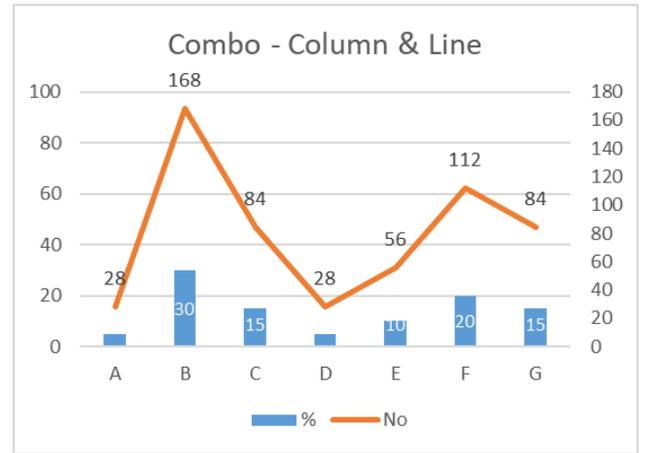
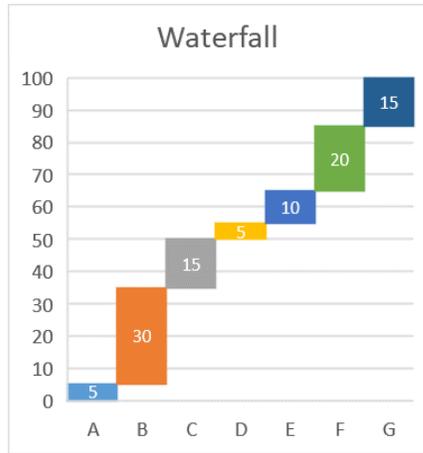
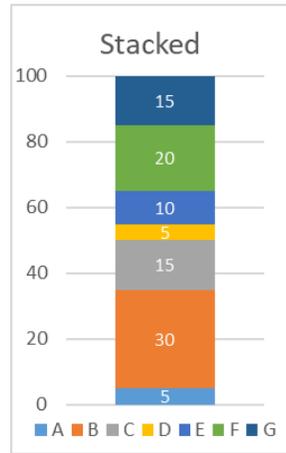
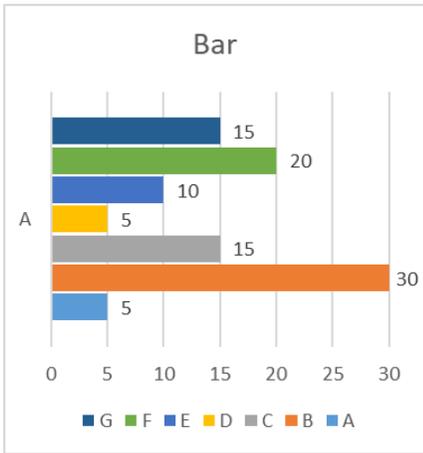
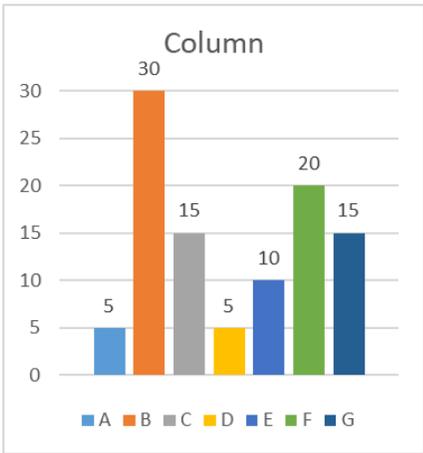
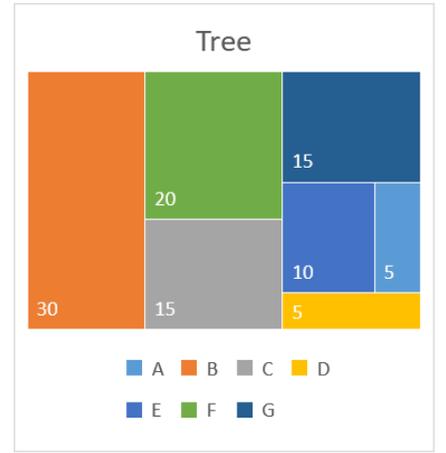
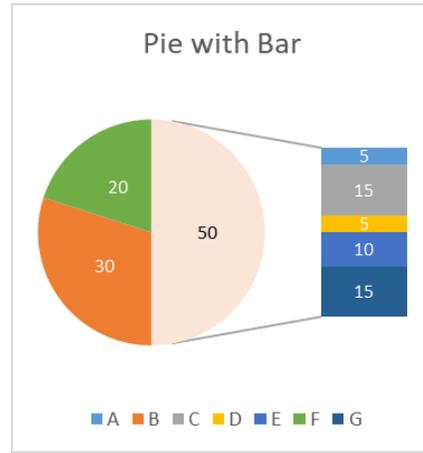
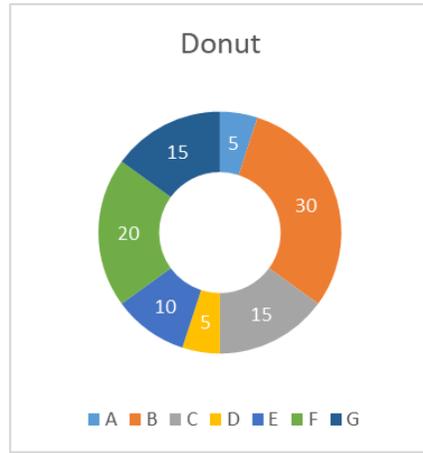
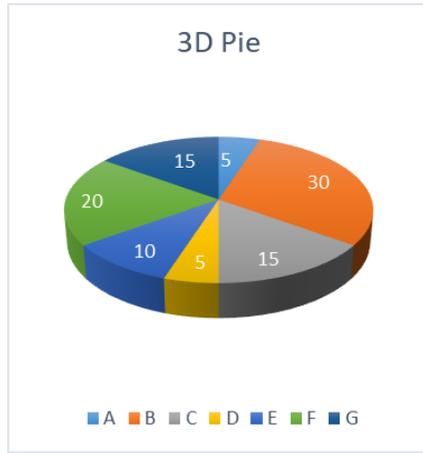
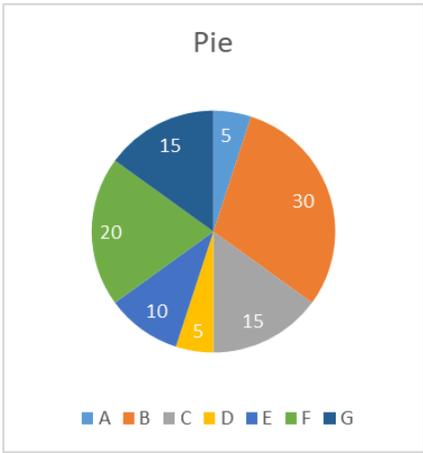
Putting it into Perspective

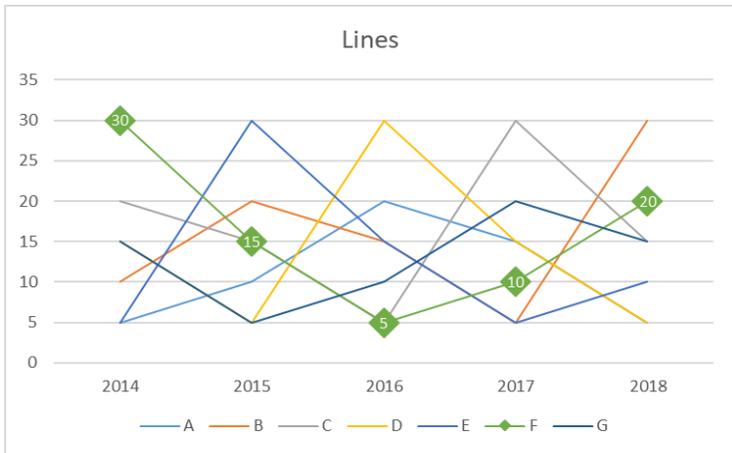
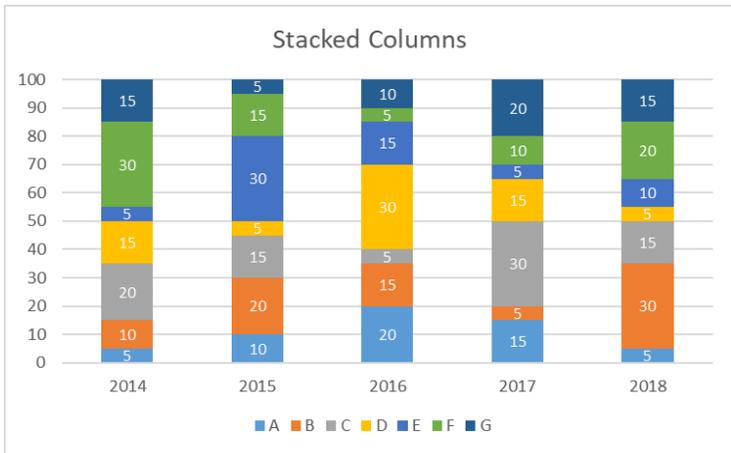
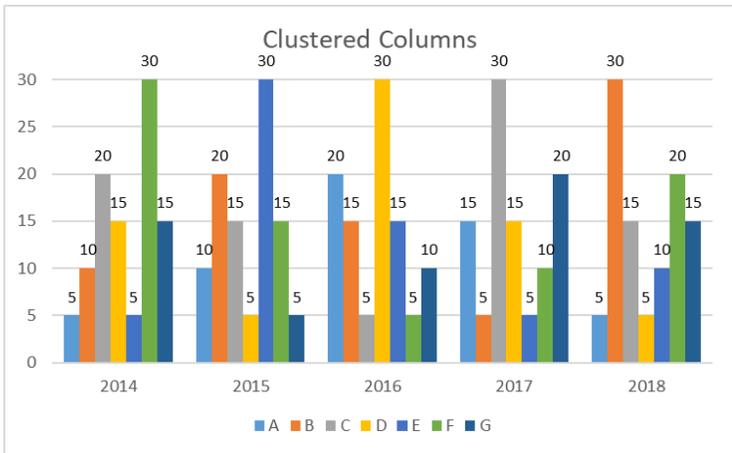
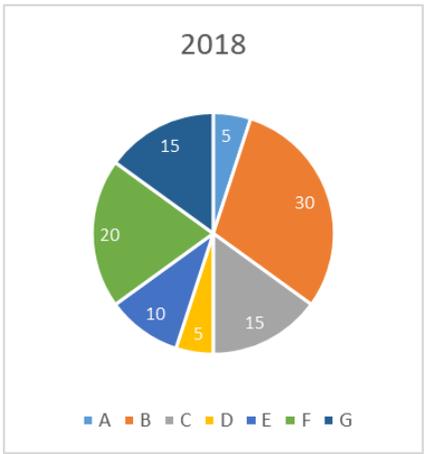
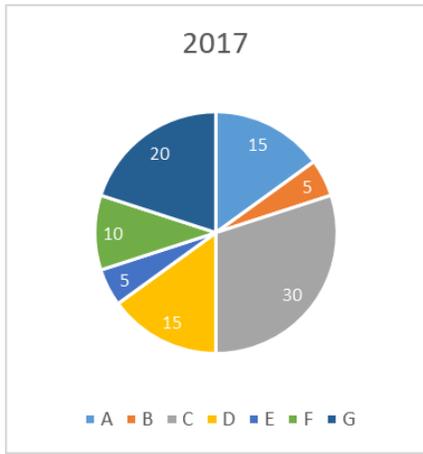
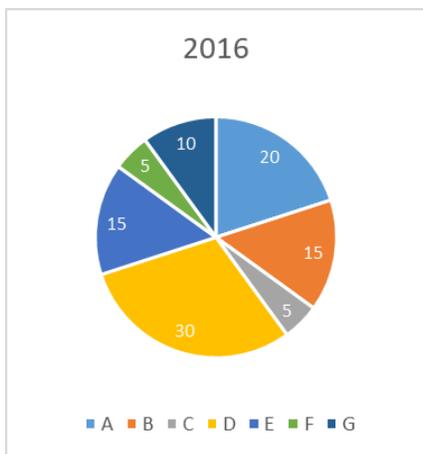
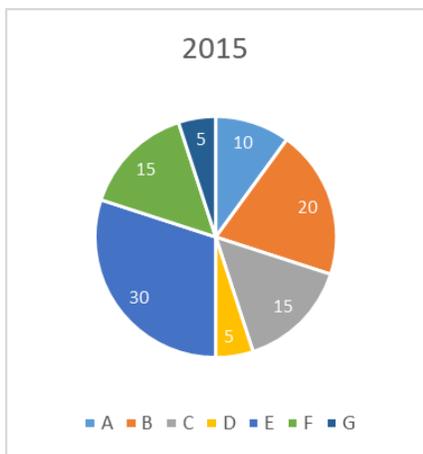
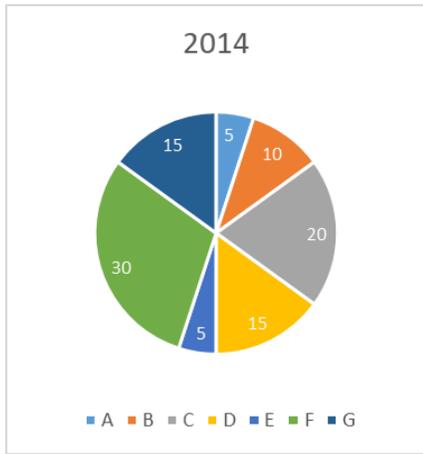
Samantha Heeson
Electronic and Data Services Librarian
Learning Resources
Libraries and Learning Innovation

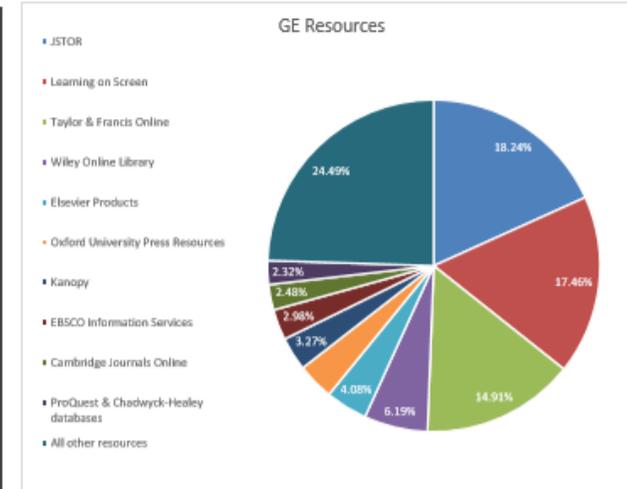
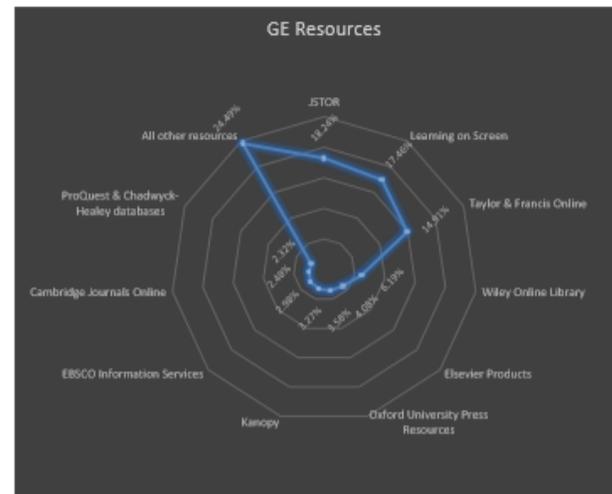
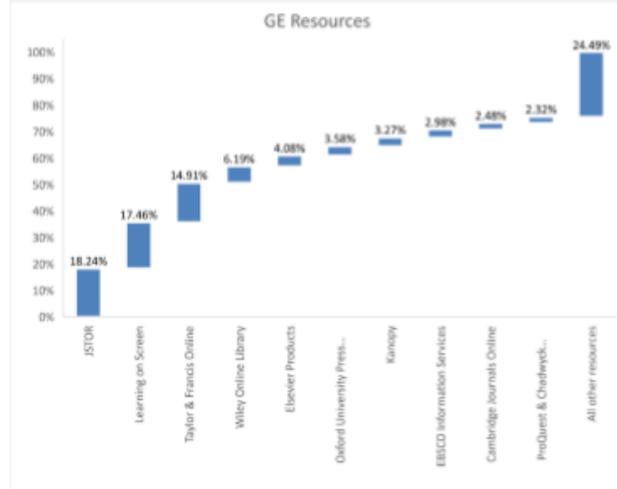
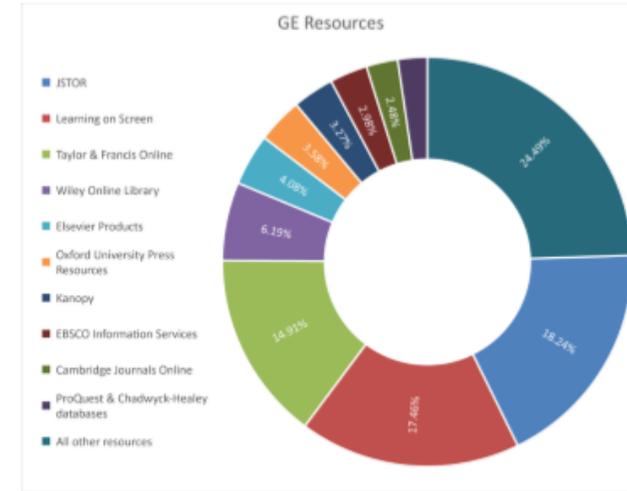
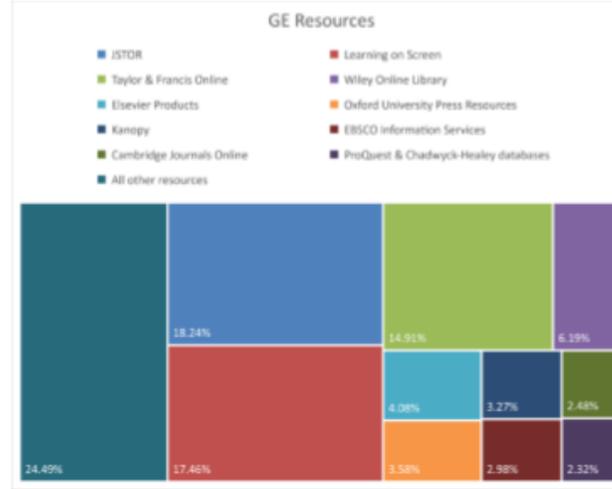
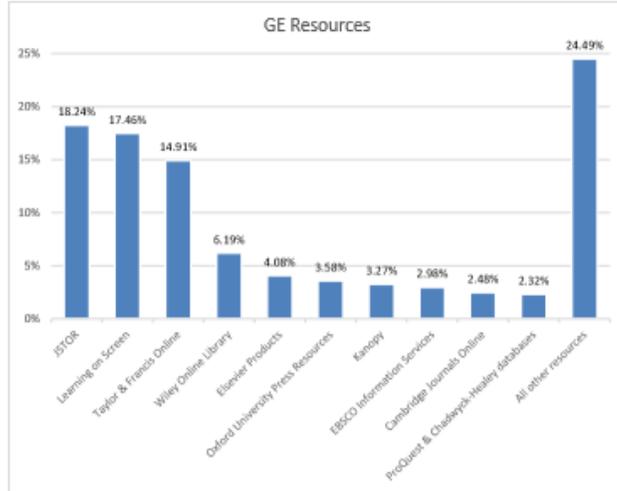
The Perfect Chart



Here's some I made
earlier... pie, anyone?







On the
straight and narrow

Library Induction Resource Promotion Impact Analysis

On the 28th November 2017, students on year 1 of the BA Honours in Childhood Studies (CHILD Y1) were provided with an induction to the Library and resources relevant to their course, including the electronic resources: Oxford Reference Online and Box of Broadcasts. Usage of some electronic resources is tracked through OpenAthens; for the resources promoted the providers are Learning on Screen and Oxford University Press Resources.

Combining the OpenAthens data with Student Record data and the induction register for CHILD Y1, enabled this analysis of the impact of the induction and campaign.

Cohort
BA Honours Childhood Studies
Year 1
28th November 2017

Electronic Resource Providers

Discover
Box of Broadcasts
Oxford Reference Online
Kanopy

Related OpenAthens Providers

Various providers
Learning on Screen
Oxford University Press Resources
Kanopy

Attended Induc...	
Y	N

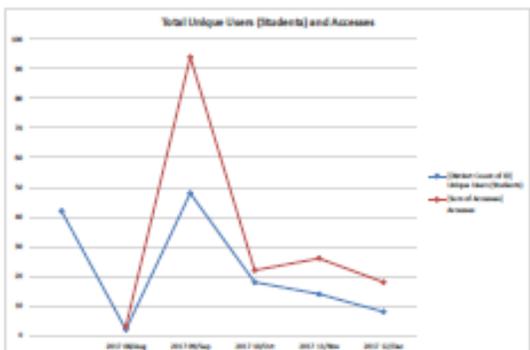
Year-Month	
2017 0...	2017 1...
2017 0...	2017 1...
2017 1...	2017 1...

Provider

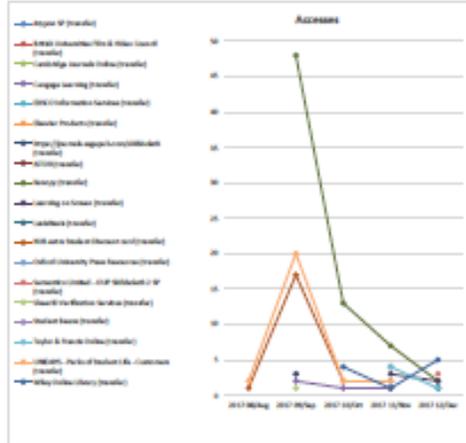
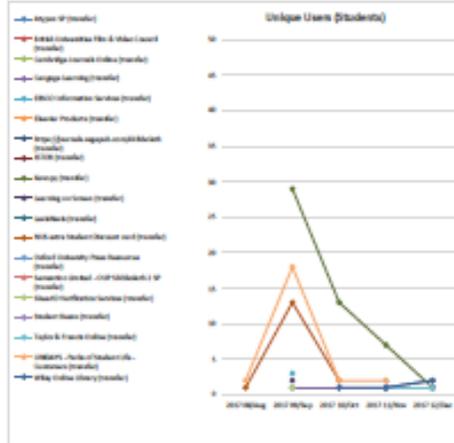
- Atypen SP (transfer)
- British Universities Film & Vi...
- Cambridge Journals Online (...)
- Cengage Learning (transfer)
- EBSCO Information Services ...
- Elsevier Products (transfer)
- https://journals.sagepub.co...
- JSTOR (transfer)
- Kanopy (transfer)
- Learning on Screen (transfer)
- LexisNexis (transfer)
- NUS extra Student Discount ...
- Oxford University Press Res...
- Semantico Limited - OUP Shi...
- SheerID Verification Services...
- Student Beans (transfer)
- Taylor & Francis Online (tran...
- UNIDAYS - Perks of Student ...
- Wiley Online Library (transfer)

Distinct Count of Provider		
Year-Month	Provider	Total
2017 08/Nov	NUS extra Student Discount card (transfer) UNIDAYS - Perks of Student Life - Customers (transfer)	2
2017 09/Sep	Cengage Learning (transfer) EBSCO Information Services (transfer) Kanopy (transfer) Learning on Screen (transfer) NUS extra Student Discount card (transfer) SheerID Verification Services (transfer) UNIDAYS - Perks of Student Life - Customers (transfer)	7
2017 10/Oct	Cengage Learning (transfer) Kanopy (transfer) NUS extra Student Discount card (transfer) UNIDAYS - Perks of Student Life - Customers (transfer) Wiley Online Library (transfer)	5
2017 11/Nov	Atypen SP (transfer) Cengage Learning (transfer) Elsevier Products (transfer) JSTOR (transfer) Kanopy (transfer) Learning on Screen (transfer) Student Beans (transfer) Taylor & Francis Online (transfer) UNIDAYS - Perks of Student Life - Customers (transfer) Wiley Online Library (transfer)	10
2017 12/Dec	British Universities Film & Video Council (transfer) Cambridge Journals Online (transfer) https://journals.sagepub.com/hibb016th (transfer) Kanopy (transfer) Learning on Screen (transfer) LexisNexis (transfer) Oxford University Press Resources (transfer) Semantico Limited - OUP Shibboleth 2 SP (transfer) Taylor & Francis Online (transfer) Wiley Online Library (transfer)	10
Grand Total		18

Year-Month	Distinct Count of ID Unique Users (Students)	Sum of Accessed Resources
2017 08/Nov	43	3
2017 09/Sep	48	34
2017 10/Oct	34	22
2017 11/Nov	34	24
2017 12/Dec	6	18
Grand Total	165	101



Distinct Count of ID Unique Users (Students)		Attended Induction		
On Induction List	Enrolled	Y	N	Grand Total
Y		43		43
	EN	1	28	29
	EP	2	2	4
	ER		1	1
N			12	12
	EA	0	0	0
	EP	1	1	2
	ER	5	5	10
Grand Total		52	55	107



Findings and Conclusions

Just over half (52%) of the students on the CHILD Y1 induction register attended the induction. All those who attended were fully enrolled students, those who did not attend were repeaters or had failed to enrol.

There were not any significant changes in usage during the month of the induction or the month immediately following the induction.

Total unique users (students) declined over the period.

Total accesses peaked in September and November.

More resources were accessed by those who attended the induction compared to those who did not.

'Learning on Screen' and 'Oxford University Press Resources' were accessed by a small number of students who attended the induction, but none of those who did not attend.

'Learning on Screen' was accessed prior to the month of the induction, 'Oxford University Press Resources' was not.

Kanopy was accessed more than other resources, although it had a strong downward trend across the period.

Providers first accessed during the month of the induction and / or the month immediately following the induction were: Atypen SP, British Universities Film & Video Council, Cambridge Journals Online, Elsevier, JSTOR, LexisNexis, Oxford University Press Resources, Sage, Semantico Limited, Taylor & Francis Online.

Cengage Learning was accessed prior to and during the month of the induction.

EBSCO Information Services was accessed prior to the month of the induction.

Wiley Online Library was accessed before, during and after the month of the induction.

Usage in August was of NUS extra Student Discount card and UNIDAYS Perks of Student Life Customers, which peaked in September, and may be due to university and course inductions.

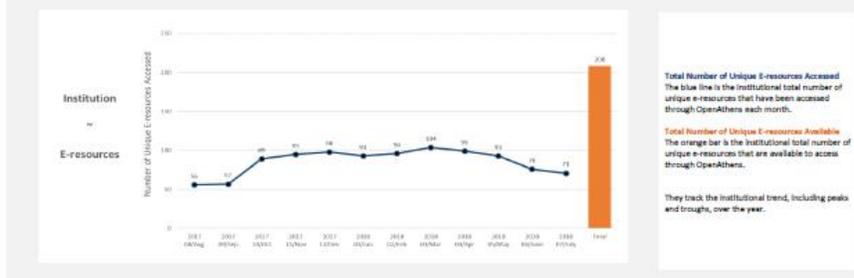
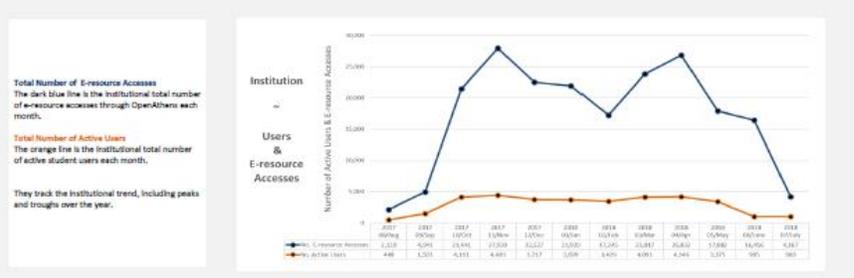
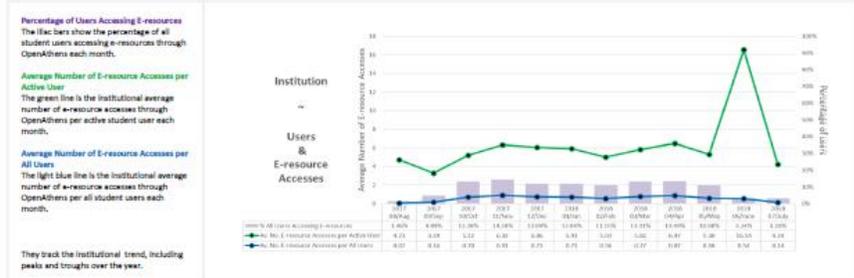
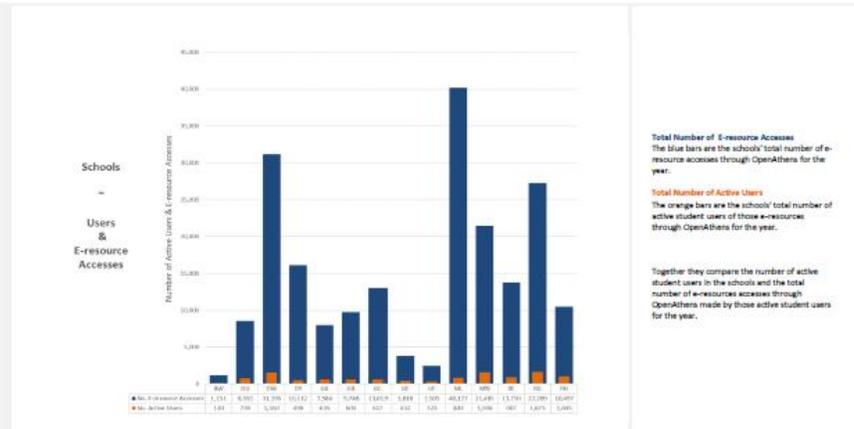
The numbers are too small to conclude a direct relationship, but it may be that the library induction encouraged the CHILD Y1 cohort to use the resources provided.

* OpenAthens data is provided as monthly reports of individual provider usage by individual student IDs.
* Student Record data is provided as weekly snapshots.

Statistics based on 2017-18 OpenAthens access Data from OpenAthens and Student Record

2017-18 Analysis Institution Overview

October 2018



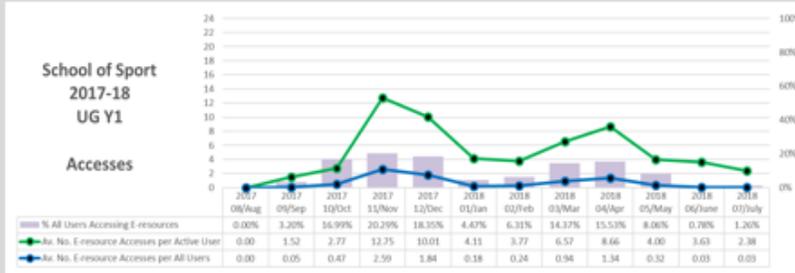
The charts on the left show each level and year of the school's e-resource accesses through OpenAthens by average number for active student users and all student users, as well as the percentage of all of each school's student users accessing the e-resources.

Percentage of Users Accessing E-resources The lilac bars show the percentage of all the school's student users accessing e-resources each month.

Average Number of E-resource Accesses per Active User The green line is the school's average number of e-resource accesses per active student user each month.

Average Number of E-resource Accesses per All Users The blue line is the school's average number of e-resource accesses per all student users each month.

They track the school's trend, including peaks and troughs over the year.

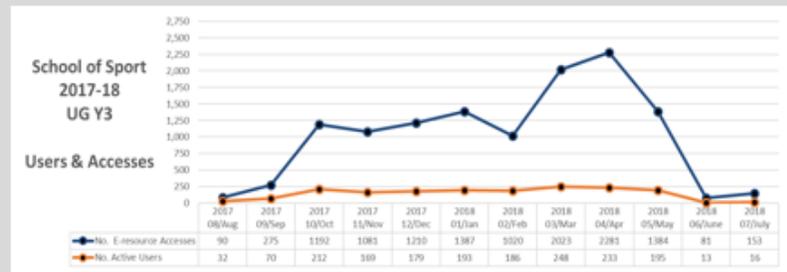
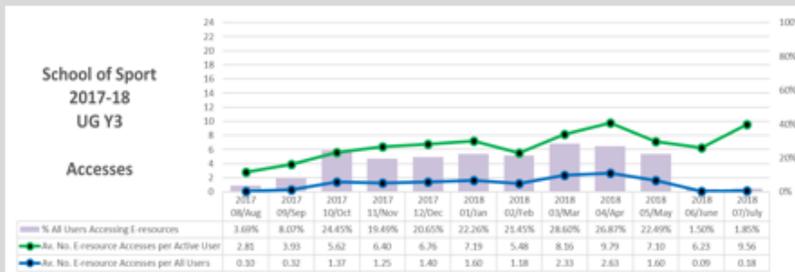
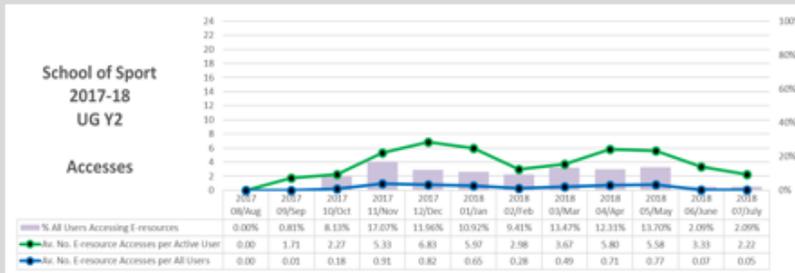


The charts on the right show each level and year of the school's e-resource accesses through OpenAthens and active student users, both by number.

Total Number of E-resource Accesses The blue line is the school's total number of e-resource accesses each month.

Total Number of Active Users The orange line is the school's total number of active student users each month.

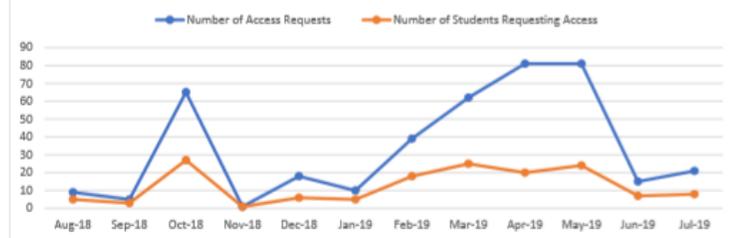
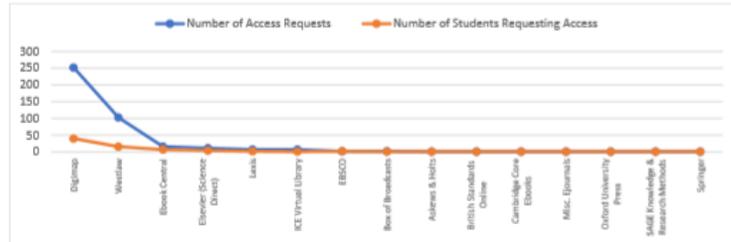
They track the school's trend, including peaks and troughs over the year.



BSc Architectural Technology ARCHT-A029

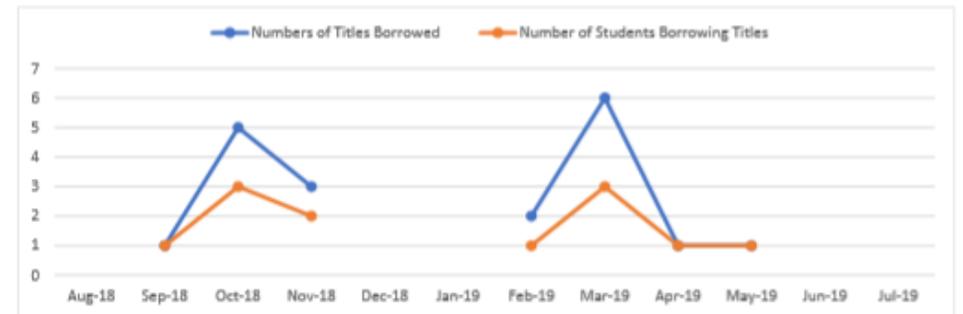
eResources: 407 requests for access to 15 e-resources were made by 46 students (unique individuals) on this course in 2018/19. Digimap was the most requested e-resource, accounting for almost 62% of the access requests, with 40 of those students requesting it 252 times between them. The trend over the year reflects the academic calendar.

	eResource	Number of Access Requests	Number of Students Requesting Access	Percentage of Access Requests	Rank
1	Digimap	252	40	61.92%	1
2	Westlaw	103	16	25.31%	2
3	Ebook Central	16	7	3.93%	3
4	Elsevier (Science Direct)	11	4	2.70%	4
5	Lexis	7	2	1.72%	5
6	ICE Virtual Library	7	1	1.72%	6
7	EBSCO	2	2	0.49%	7
8	Box of Broadcasts	2	1	0.49%	8
9	Askews & Holts	1	1	0.25%	9
10	British Standards Online	1	1	0.25%	9
11	Cambridge Core Ebooks	1	1	0.25%	9
12	Misc. Ejournals	1	1	0.25%	9
13	Oxford University Press	1	1	0.25%	9
14	SAGE Knowledge & Research Methods	1	1	0.25%	9
15	Springer	1	1	0.25%	9
	TOTAL	407	46	100.00%	



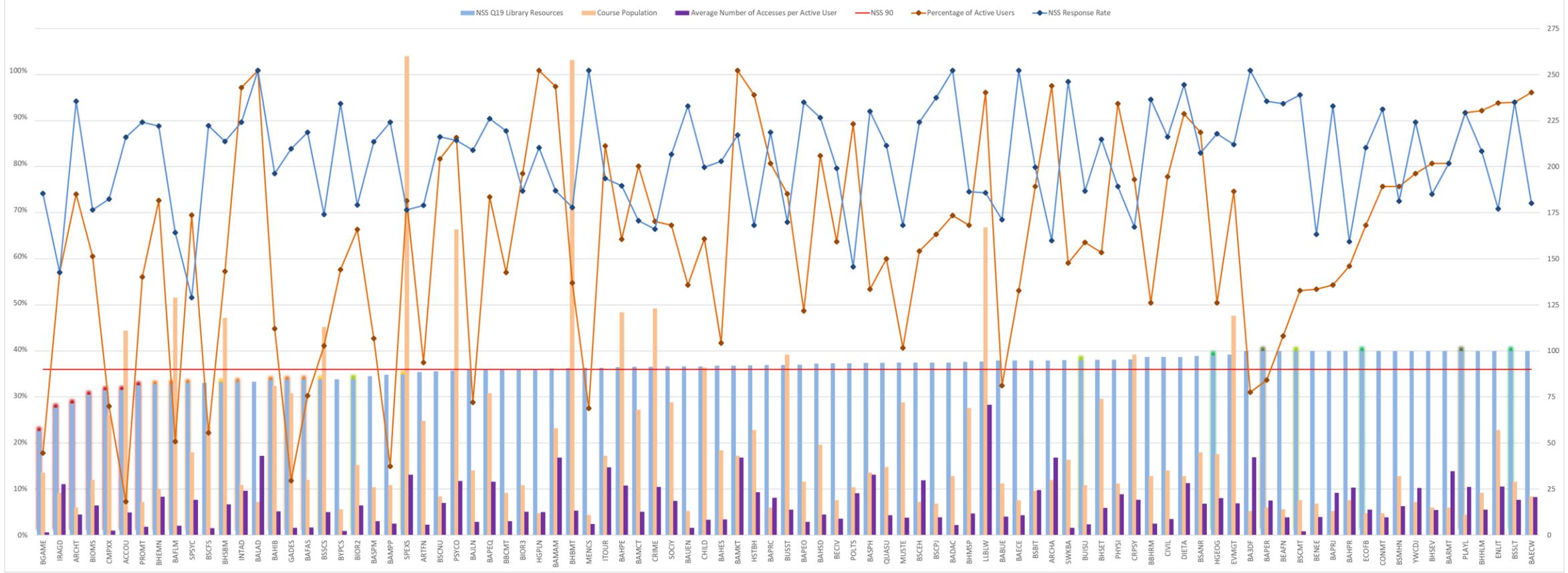
Physical Resources: 18 titles were borrowed by 8 students (unique individuals) on this course in 2018/19. Each title was borrowed once. The trend over the year shows borrowing of physical resources mainly takes place in the first half of each semester.

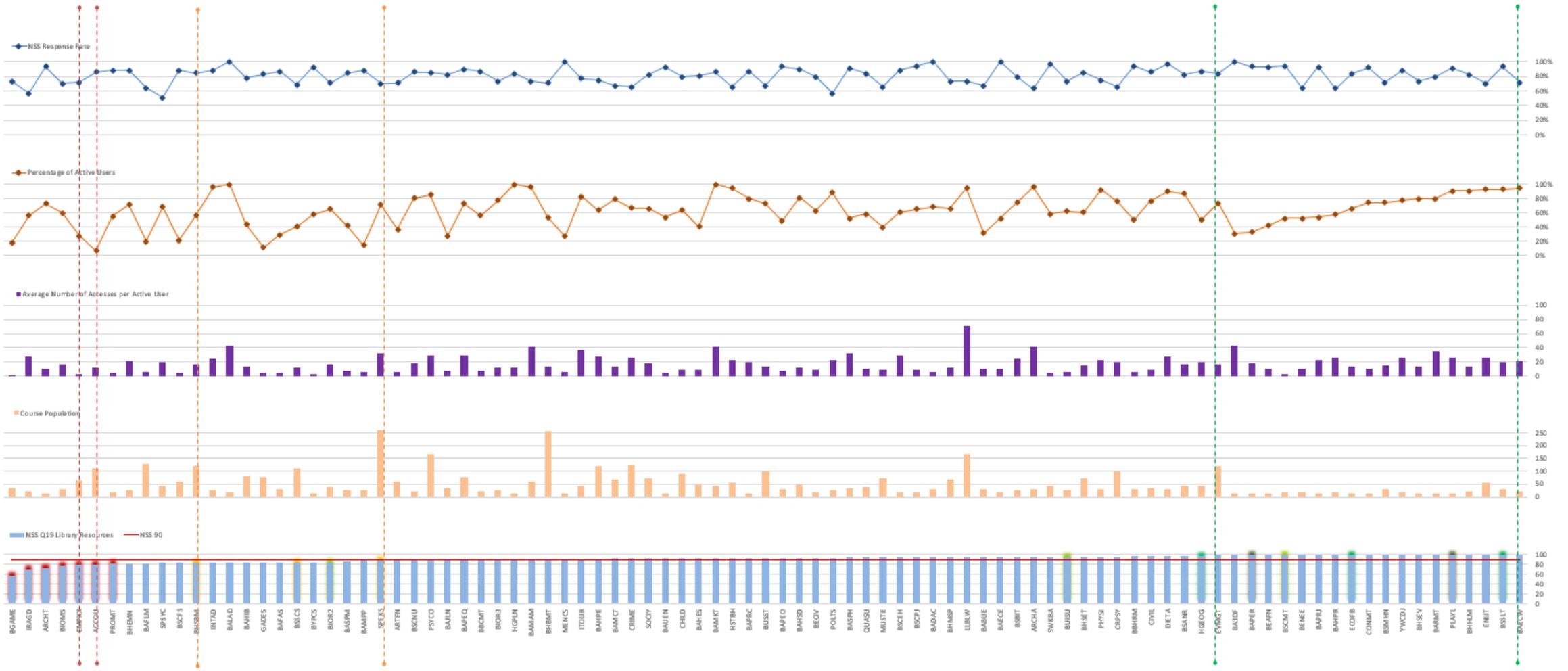
	Title	Number of Students Borrowing Titles
1	A building contract casebook /	1
2	A guide to site and environmental planning /	1
3	Architectural drawing /	1
4	Architectural graphics /	1
5	Big business, poor peoples : the impact of transnational corporations on the world's poor /	1
6	Building adaptation /	1
7	Building contract dictionary.	1
8	Case study research and applications : design and methods /	1
9	Construction methods and planning / J.R. Illingworth.	1
10	Design drawing /	1
11	Dissertations and project reports : a step by step guide /	1
12	Doing research /	1
13	Liquidated damages and extensions of time in construction contracts /	1
14	Materials science in construction : an introduction /	1
15	Metric handbook : planning and design data /	1
16	Practical building conservation.	1
17	Presentation basics /	1
18	Tort.	1
	TOTAL number of students borrowing titles	8

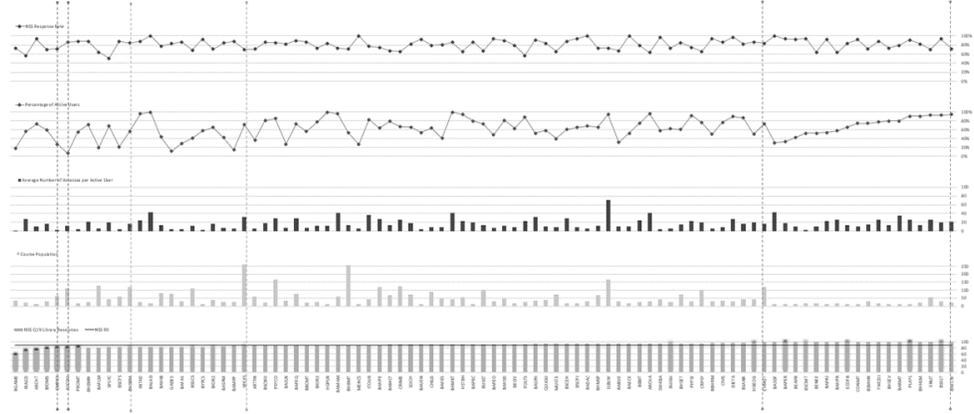
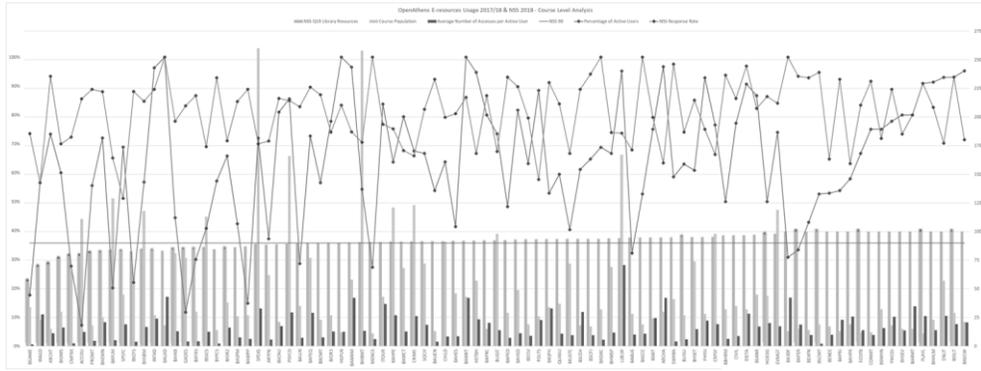


Off the chart

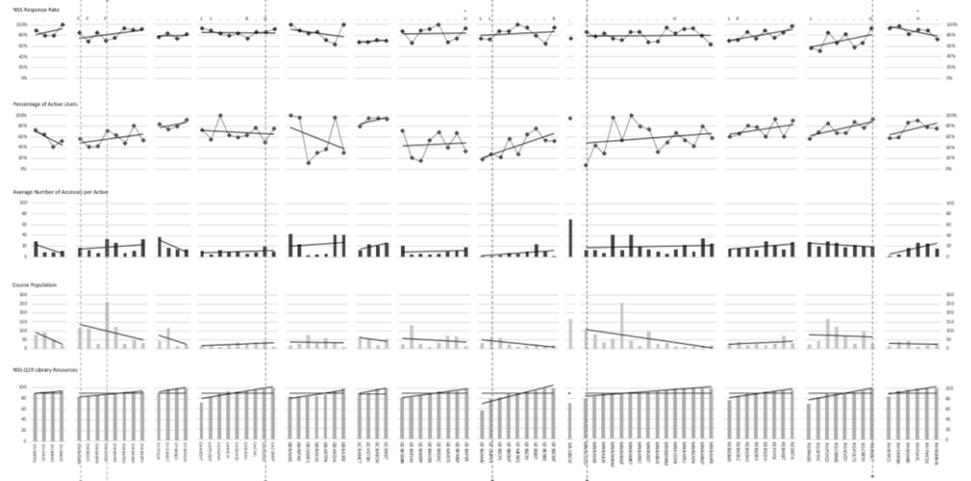
OpenAthens E-resources Usage 2017/18 & NSS 2018 - Course Level Analysis





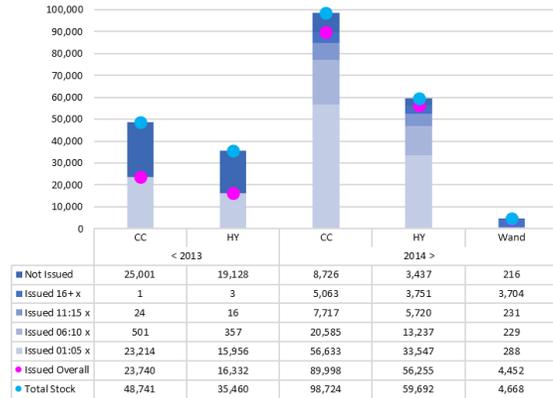


OpenAthens E-resources Usage 2017/18 & NSS 2018 - School Level Analysis

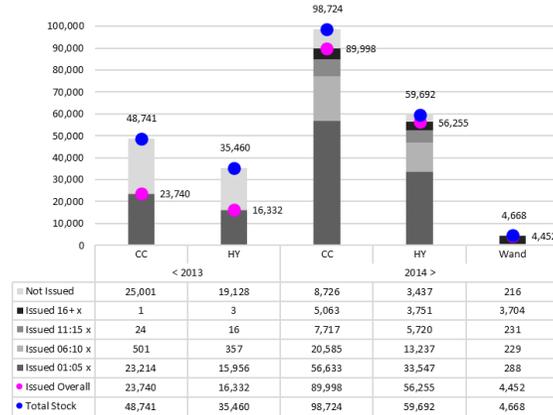


A thin blue line

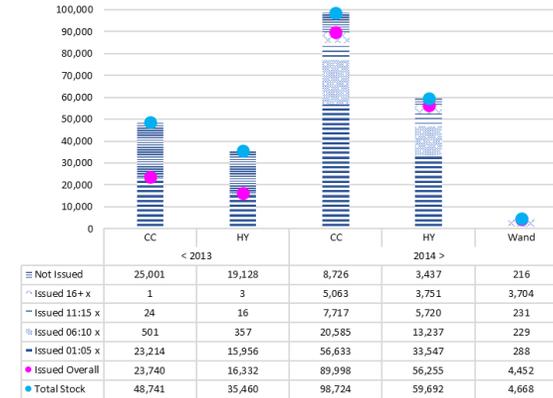
Amount of Stock Issued



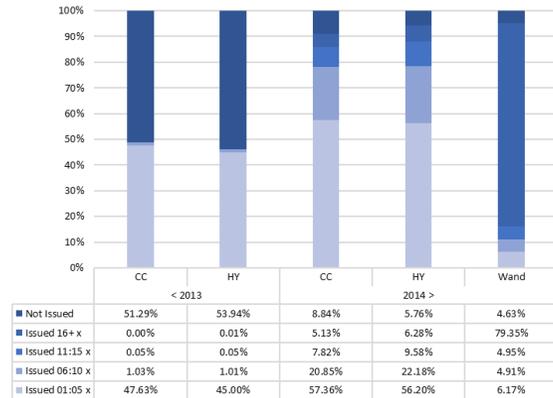
Amount of Stock Issued



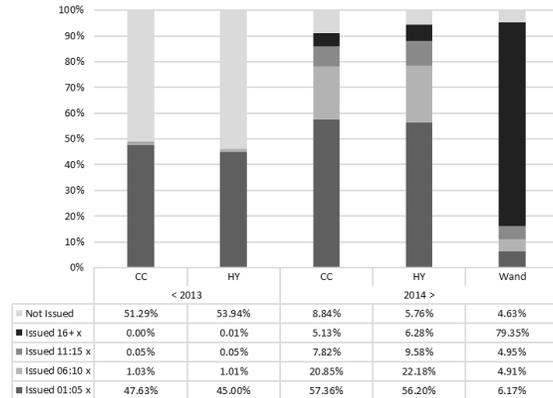
Amount of Stock Issued



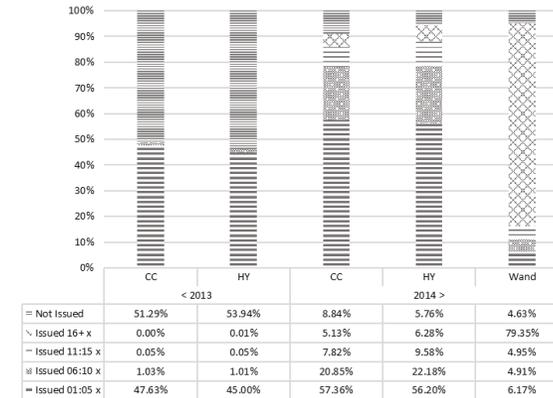
Percentage of Stock Issued



Percentage of Stock Issued

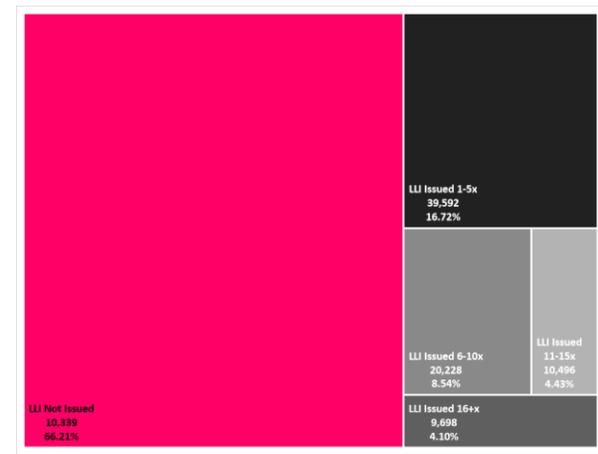
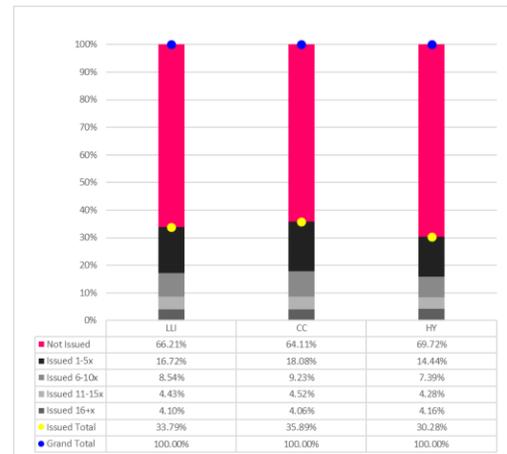
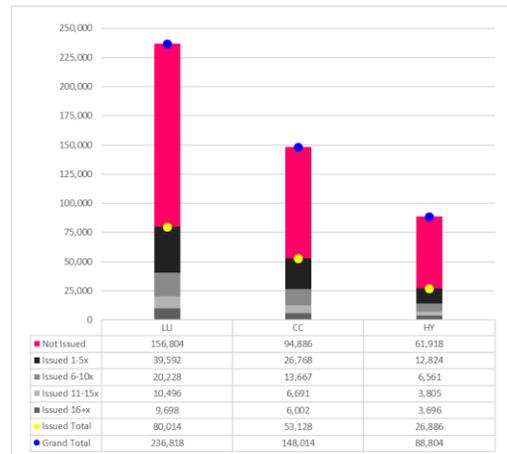
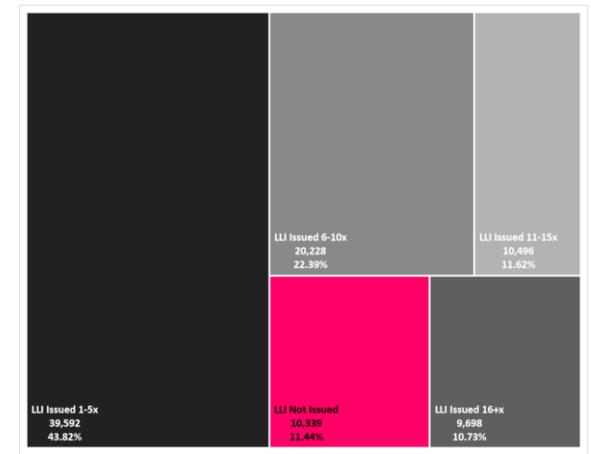
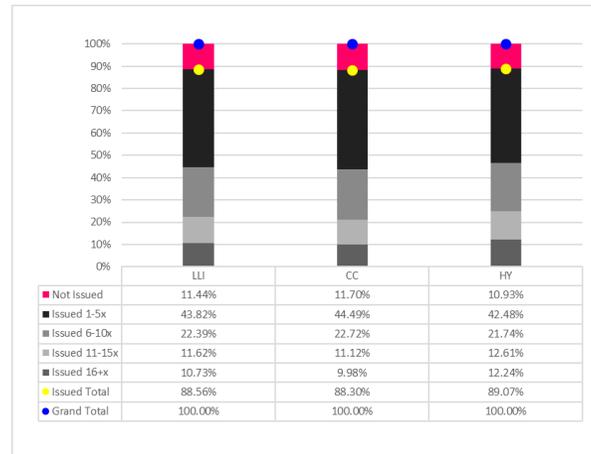
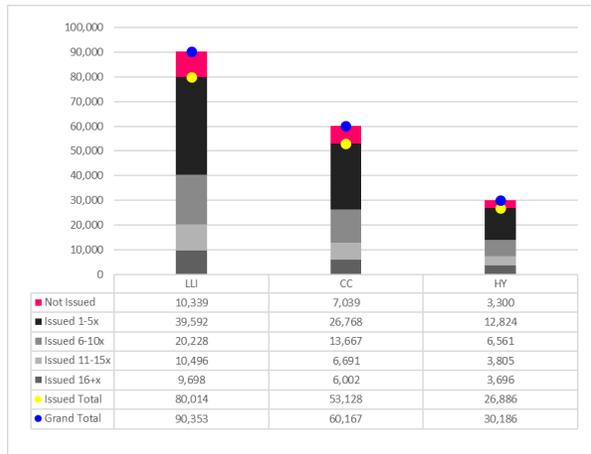


Percentage of Stock Issued



- * Stock has more or less doubled
- * Issues have increased considerably
- * All bands of issues have increased

- * Similar trends across libraries, except Headingley usage
- * Not issued has fallen considerably
- * Headingley usage is predominantly issued 16+ times band



Loanable Stock - Number of Items		Total	Issued	Not Issued
No. items		90,353	80,014	10,339
	City	60,167	53,128	7,039
	Headingley	30,186	26,886	3,300
Loanable Stock - Percentage of Items		Total	Issued	Not Issued
% Items		100%	88.56%	11.44%
	City	66.59%	58.80%	7.79%
	Headingley	33.41%	29.76%	3.65%

Loanable Stock - Number of Unique Titles		Total
No. unique titles*		51,213
	City	33,678
	Headingley	17,535
* Duplicates unique titles over both campuses		
Loanable Stock - Percentage of Unique Titles		Total
% unique titles		100%
	City	65.76%
	Headingley	34.24%

Loanable Stock - Number of Interlibrary Loans		Total	Issued
No. items interlibrary loans		532	
	City		451
	Headingley		81
Loanable Stock - Percentage of Interlibrary Loans		Total	Issued
% items interlibrary loans		100%	
	City		84.77%
	Headingley		15.23%

Loanable Stock - Greatest Number of Lifetime Checkouts		Issued
Greatest no. short loans		
	City	124
	Headingley	355
Greatest no. normal loans		
	City	78
	Headingley	67

Loanable Stock - Number of Items in Dewey Ranges		Total	Issued	Not Issued
No. items Dewey range 001-099		3,174	2,566	608
	City	952	849	103
	Headingley	2,222	1,717	505
No. items Dewey range 100-199		4,894	4,424	470
	City	4,031	3,626	405
	Headingley	863	798	65
No. items Dewey range 200-299		231	202	29
	City	197	175	22
	Headingley	34	27	7
No. items Dewey range 300-399		34,298	31,147	3,151
	City	22,523	20,337	2,186
	Headingley	11,775	10,810	965
No. items Dewey range 400-499		2,492	2,112	380
	City	421	368	53
	Headingley	2,071	1,744	327
No. items Dewey range 500-599		1,065	861	204
	City	492	411	81
	Headingley	573	450	123
No. items Dewey range 600-699		21,435	19,210	2,225
	City	16,110	14,387	1,723
	Headingley	5,325	4,823	502
No. items Dewey range 700-799		14,372	12,218	2,154
	City	9,146	7,404	1,742
	Headingley	5,226	4,814	412
No. items Dewey range 800-899		3,970	3,625	345
	City	3,293	3,045	248
	Headingley	677	580	97
No. items Dewey range 900-999		2,511	2,346	165
	City	2,069	1,975	94
	Headingley	442	371	71

Loanable Stock - Percentage of Items in Dewey Ranges		Total	Issued	Not Issued
% items Dewey range 001-099		100%	80.84%	19.16%
	City	29.99%	26.75%	3.25%
	Headingley	70.01%	54.10%	15.91%
% items Dewey range 100-199		100%	90.40%	9.60%
	City	82.37%	74.09%	8.28%
	Headingley	17.63%	16.31%	1.33%
% items Dewey range 200-299		100%	87.45%	12.55%
	City	85.28%	75.76%	9.52%
	Headingley	14.72%	11.69%	3.03%
% items Dewey range 300-399		100%	90.81%	9.19%
	City	65.67%	59.30%	6.37%
	Headingley	34.33%	31.52%	2.81%
% items Dewey range 400-499		100%	84.75%	15.25%
	City	16.89%	14.77%	2.13%
	Headingley	83.11%	69.98%	13.12%
% items Dewey range 500-599		100%	80.85%	19.15%
	City	46.20%	38.59%	7.61%
	Headingley	53.80%	42.25%	11.55%
% items Dewey range 600-699		100%	89.62%	10.38%
	City	75.16%	67.12%	8.04%
	Headingley	24.84%	22.50%	2.34%
% items Dewey range 700-799		100%	85.01%	14.99%
	City	63.64%	51.52%	12.12%
	Headingley	36.36%	33.50%	2.87%
% items Dewey range 800-899		100%	91.31%	8.69%
	City	82.95%	76.70%	6.25%
	Headingley	17.05%	14.61%	2.44%
% items Dewey range 900-999		100%	93.43%	6.57%
	City	82.40%	78.65%	3.74%
	Headingley	17.60%	14.77%	2.83%

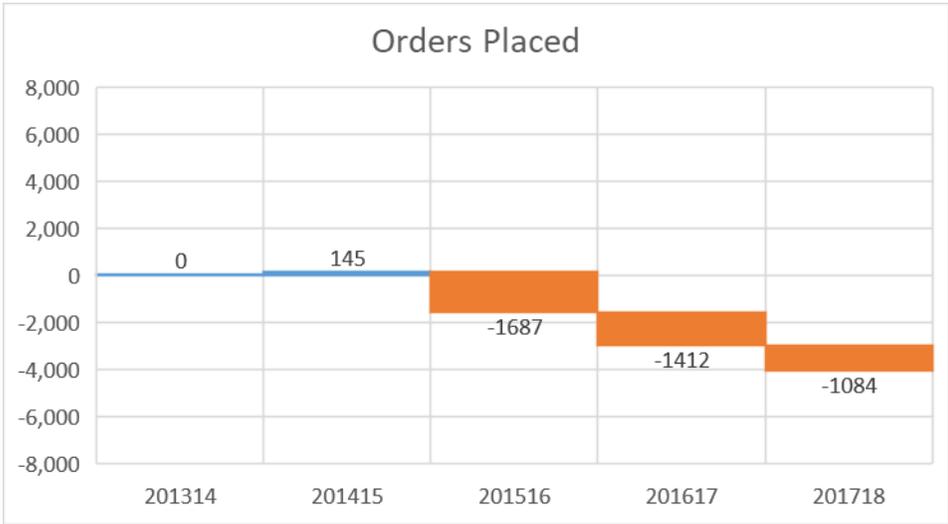
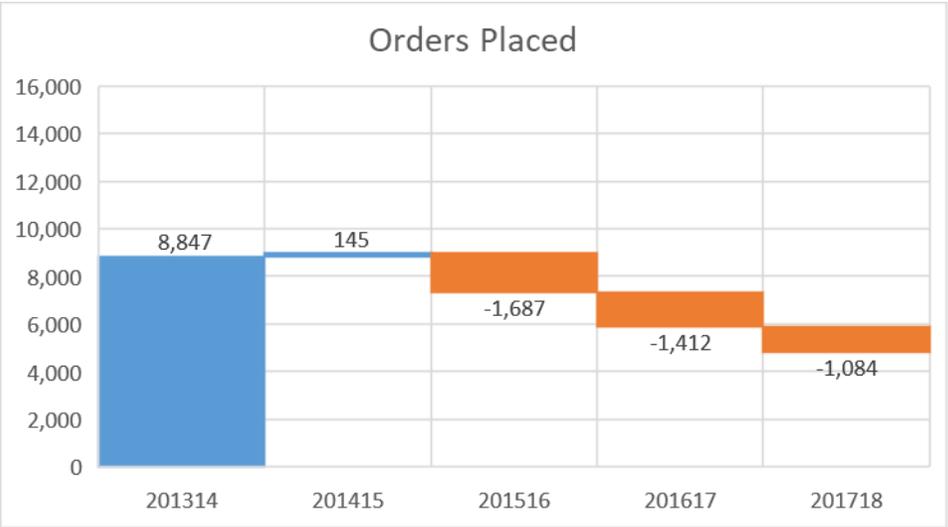
Loanable Stock - Number of Items in Publication Year:		Total	Issued	Not Issued
No. items published from 2013		21,517	17,094	4,423
	City	15,136	11,980	3,156
	Headingley	6,381	5,114	1,267
No. items published between 2000 and 2012		45,166	42,317	2,849
	City	29,003	27,152	1,851
	Headingley	16,163	15,165	998
No. items published before 2000		23,140	20,228	2,912
	City	15,684	13,750	1,934
	Headingley	7,456	6,478	978
No. items with no publication year		530	375	155
	City	344	246	98
	Headingley	186	129	57

Loanable Stock - Percentage of Items in Publication Years		Total	Issued	Not Issued
% items published from 2013		100%	79.44%	20.56%
	City	70.34%	55.68%	14.67%
	Headingley	29.66%	23.77%	5.89%
% items published between 2000 and 2012		100%	93.69%	6.31%
	City	64.21%	60.12%	4.10%
	Headingley	35.79%	33.58%	2.21%
% items published before 2000		100%	87.42%	12.58%
	City	67.78%	59.42%	8.36%
	Headingley	32.22%	27.99%	4.23%
% items with no publication year		100%	70.75%	29.25%
	City	64.91%	46.42%	18.49%
	Headingley	35.09%	24.34%	10.75%

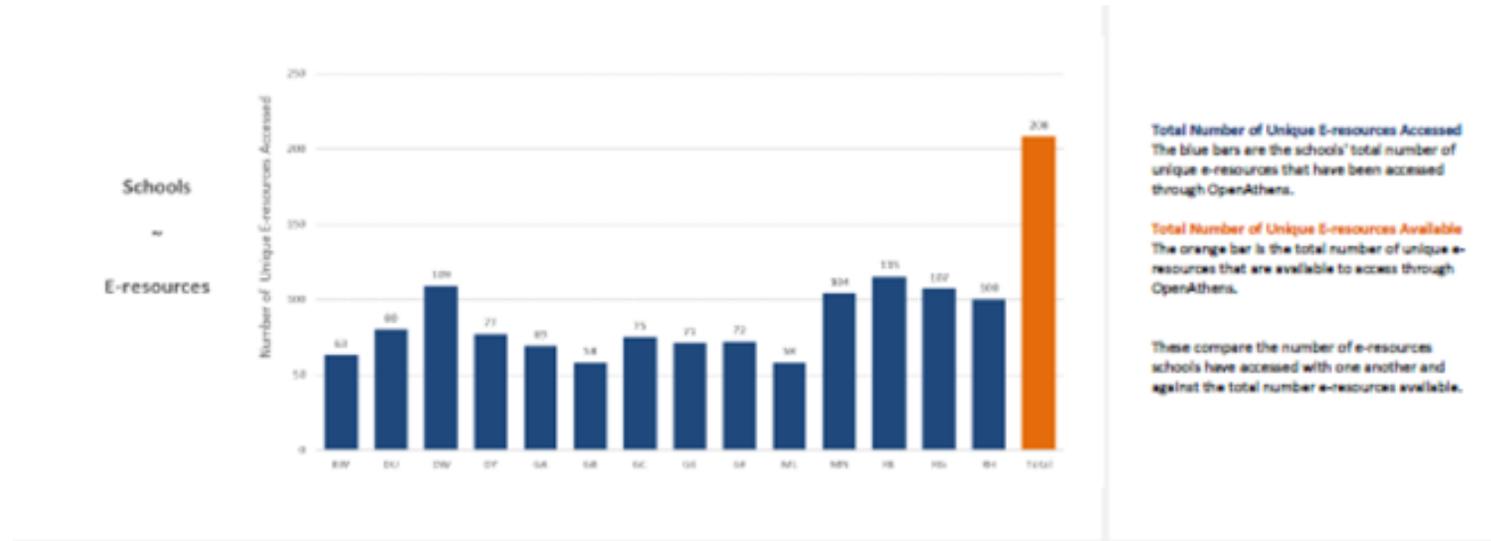
Q 18-20. Learning Resources

Turn It In - Class

NSS Type	Course ID	School	Score	Number Modules	Similarity Reports Av.	Submissions Av.	Submissions with Feedback Av.	Submissions Scored with a Rubric Av.	Total Feedback Av.	Summary Text Comments Av.	Voice Comments Av.	QuickMarks Av.	Bubble Comments Av.	Inline Text Comments Av.	Strike through Marks Av.	Grading Form Marks Av.	Peer Reviews Created Av.
Top 10	BSBIT	GF	98.04	14	140.07	125.64	8.79	0.00	30.93	6.86	0.00	4.43	19.64	0.00	0.00	0.00	0.00
	BAFAS	GB	97.92	2	105.00	81.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	BAECE	DU	97.62	14	55.14	41.29	31.29	15.43	660.64	29.93	0.00	183.86	386.43	57.14	3.29	0.00	0.00
	BSSLT	RG	97.50	12	72.42	66.33	53.58	15.25	842.83	10.83	0.00	58.58	609.25	37.67	0.08	126.42	0.00
	BAUEN	GE	97.44	17	44.59	43.76	37.12	17.76	496.59	36.76	0.00	66.35	393.18	0.18	0.12	0.00	0.00
	ENGHI	GC	97.44	17	99.71	88.00	5.24	0.00	159.00	5.18	0.00	94.76	58.94	0.00	0.12	0.00	0.00
	MUSTE	GE	96.30	19	78.21	72.47	64.95	43.53	663.16	63.95	0.00	121.74	477.16	0.16	0.16	0.00	0.00
	PHYSI	RE	96.30	11	80.91	70.55	43.00	0.00	683.55	42.91	0.09	65.00	573.00	0.18	2.36	0.00	0.00
	BAJLN	MN	95.24	17	92.94	78.35	50.94	0.00	559.76	29.29	1.71	46.12	249.88	231.94	0.82	0.00	0.00
	YWCDJ	RH	95.24	20	23.50	18.50	14.45	0.00	203.70	13.15	1.05	24.35	156.85	8.20	0.10	0.00	0.00
AVERAGE			96.90	14.30	79.25	68.64	30.93	9.20	430.02	23.89	0.28	66.52	292.43	33.55	0.70	12.64	0.00
Rank					2	3	4	5	1	4	7	2	1	3	6	5	8



A 1,000 words
paint a picture



Alternate Text:

A column chart showing the total number of unique e-resources accessed by each school's students in the 2017/18 academic year. The X-axis shows the schools in alphabetical order plus the total number of unique e-resources available. The Y-axis shows the number of unique e-resources accessed on a scale of 0 to 250 with intervals of 50. There are 208 unique e-resources available. GB and ML schools have accessed the least unique e-resources, 58. RE school has accessed the most unique e-resources, 115.

BW has accessed 63 unique e-resources; DU has accessed 80 unique e-resources; DW has accessed 109 unique e-resources; DY has accessed 77 unique e-resources; GA has accessed 69 unique e-resources; GB has accessed 58 unique e-resources; GC has accessed 75 unique e-resources; GE has accessed 71 unique e-resources; GF has accessed 72 unique e-resources; ML has accessed 58 unique e-resources; MN has accessed 104 unique e-resources; RE has accessed 115 unique e-resources; RG has accessed 107 unique e-resources; RH has accessed 100 unique e-resources; there are 208 unique e-resources available.

Out of line

PowerBI Trial Annual School Summary Chart - Power BI Desktop

File Home View Modeling Help Format Data / Drill

Clipboard: Paste, Copy, Format Painter

External data: Get Data, Recent Sources, Enter Data, Edit Queries, Refresh

Insert: New Page, New Visual, Ask A Question, Buttons, Shapes

Custom visuals: From Marketplace, From File

Themes: Switch Theme

Relationships: Manage Relationships

Calculations: New Measure, New Column, New Quick Measure

Share: Publish

Visualizations: [Icons for various chart types]

Fields: Search, Table1 (selected)

- % All Users Accessing E-resources
- Av. No. E-resource Accesses per Active User
- Av. No. E-resource Accesses per All Users
- Institution % Users Accessing E-resources (37.68%)
- Institution Av. No. E-resource Accesses per Active User (17.9)
- Institution Av. No. E-resource Accesses per All Users (6.74)
- No. Active Users
- No. E-resource Accesses
- School

Table1 (2)

- BW
- DU
- DW
- DY
- GA
- GB
- GC
- GE
- GF
- ML
- MN
- RE

Shared axis: School

Column series: [Empty]

Add data fields here: [Empty]

Column values:

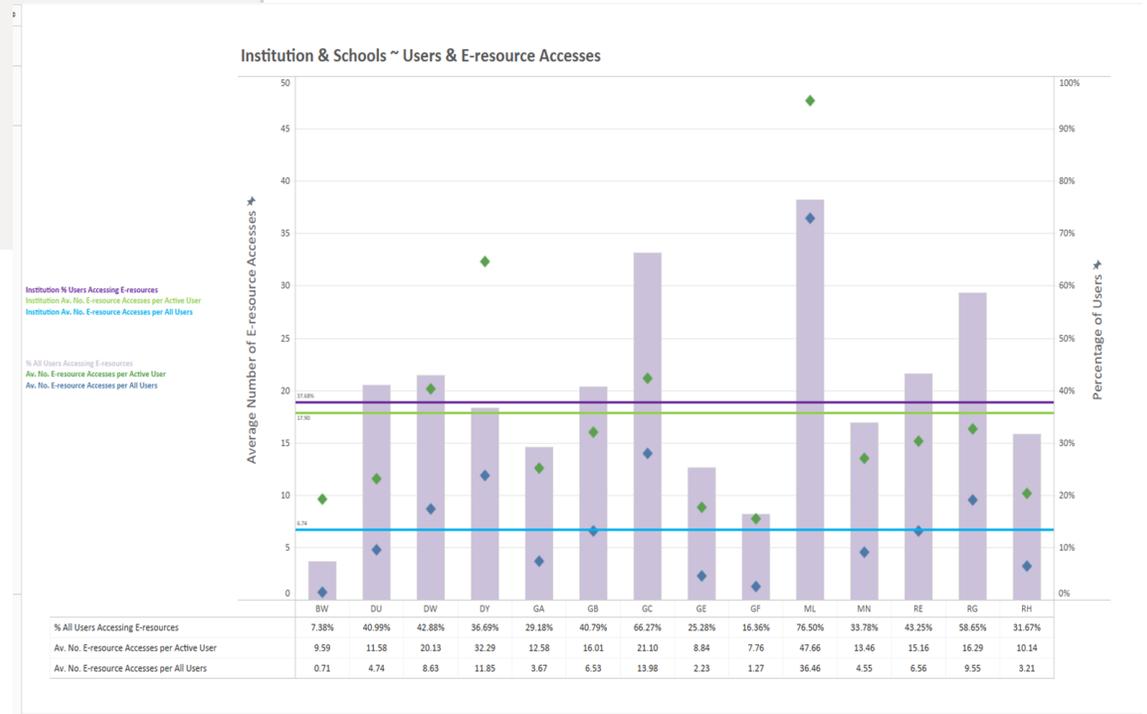
- Institution % Users Accessing E-resources (37.68%)
- % All Users Accessing E-resources

Line values:

- Institution Av. No. E-resource Accesses per All Users (6.74)
- Institution Av. No. E-resource Accesses per Active User (17.9)
- Av. No. E-resource Accesses per All Users
- Av. No. E-resource Accesses per Active User

Table 1 Data:

School	BW	DU	DW	DY	GA	GB	GC	GE	GF	ML	MN	RE	RH
% All Users Accessing E-resources	0.71	4.74	8.63	11.85	3.67	6.53	13.98	2.23	1.27	36.46	4.55	6.56	9.55
Av. No. E-resource Accesses per Active User	0.99	11.58	20.13	32.29	12.58	16.01	21.10	8.84	7.76	47.66	13.46	15.16	16.29
Av. No. E-resource Accesses per All Users	0.97	0.95	0.81	0.77	0.78	0.68	0.75	0.76	0.77	0.76	0.74	0.75	0.74

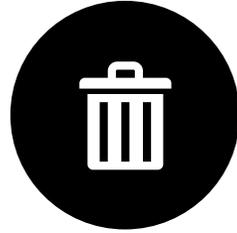




CONSULT



CHART



DECLUTTER



FOCUS



ALT TEXT



FEEDBACK



BRAVE

Break the rules...

- <http://albertocairo.com>
- <https://www.datavisualizationsociety.com>
- <https://excelcharts.com>
- <http://giorgialupi.com>
- <https://informationisbeautiful.net/>
- <https://www.informationisbeautifulawards.com/>
- <http://www.storytellingwithdata.com>
- <https://public.tableau.com/en-gb/gallery/?tab=featured&type=featured>
- <https://www.visualcinnamon.com>

- <https://blog.datawrapper.de/colorguide>
- <https://medium.com/nightingale/style-guidelines-92ebe166addc>
- <https://coolinfographics.com/dataviz-guides>

- <https://twitter.com/i/lists/1019860421686235137>



LEEDS
BECKETT
UNIVERSITY

Thank you

Any questions?

S.Heeson@leedsbeckett.ac.uk

<https://uk.linkedin.com/in/samantha-j-a-heeson>

@Samantha_Heeson