

## Aim

To identify and share good practice in the teaching of Numeracy at Sheffield College.

#### Objectives

To compare and contrast the numeracy provision at Sheffield College with an outstanding college.

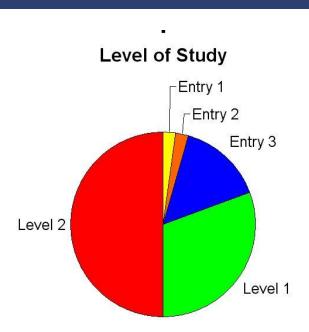
To visit numeracy classes throughout Sheffield College to identify good practice/resources that can be shared across the 3 main sites. To survey all adult numeracy teachers, enquiring about good practice already in use.

To survey adult numeracy students in their lessons to discover their opinions about numeracy lessons.

#### What the students think.

•48 adult students from all 3 sites were asked their opinions on Numeracy lessons.

•They were studying a variety of levels.



Students were asked "Is there anything you would like to say about your Numeracy lessons?"

All but one student made a positive comment. Here is a small sample.

They have boosted my confidence in conquering my life long fear of maths. When I started in 2010 doing L1 numeracy I almost gave up. I also enjoy the social aspect and have met some lovely people I'd like to keep in touch with after the exam in June.

I LOOK FORWARD TO MY MATHS LESSON. THERE 15 A GOOD RAPPORT IN THE CLASSROOM AND EVERYONE 15 THERE TO HELP EACH OTHER.

I'm finding being a mature student that if I'm stuck on anything I've got the confidence to ask for help and the tutor always has a better way of explaining it to me.

I enjoy maths for the first time in my existence.

I found it interesting and am really pleased I did it- it gave me confidence. The tutor was very patient and got me through to Level 2 which l didn't think I would achiev Thanks to him!

ADULT LEARNING IS BETTER IN MATHS

BECAUSE IT IS MORE RELAXED AND PEOPLE ARE INTERESTED BECAUSE THEY WANT TO BE THERE AND

LEARN.

I really enjoyed the sessions-teacher is very supportive in his explanations to individuals and groups. I would recommend this to anyone wanting to learn or refresh their maths.

I AM GETTING BETTER

AT WORKING THINGS

OUT AND TEACHER MAKES IT EASY TO

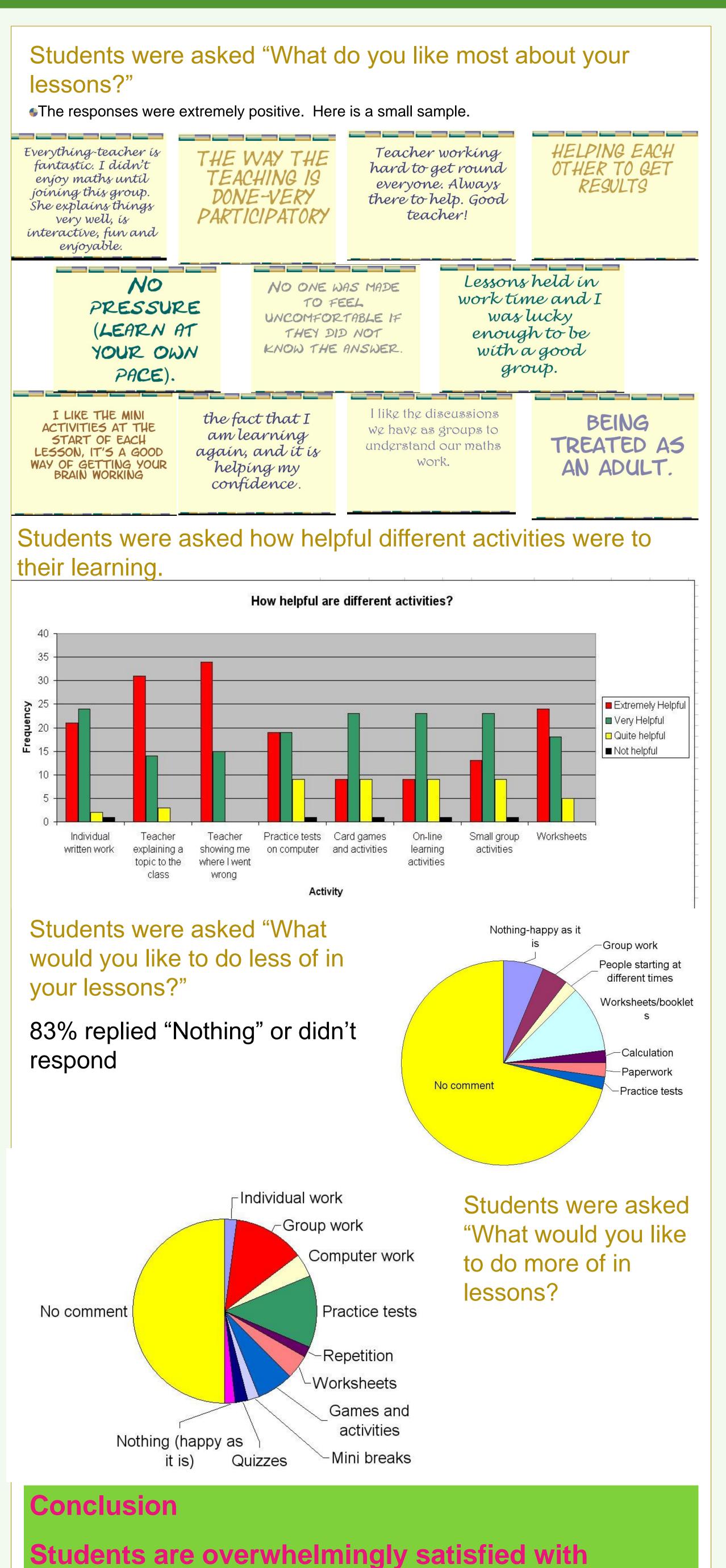
UNDERSTAND,

WHEREAS BEFORE IT

JUST LOOKED IN

ANOTHER LANGUAGE. TEACHER IS AMAZING.

# The Sheffield What are Numeracy teachers doing right at Sheffield College? Graham Wroe graham.wroe@sheffcol.ac.uk "I enjoy maths for the first time in my existence". (student)



numeracy lessons at Sheffield College.

## What the tutors think.

The 11 Numeracy teachers at Sheffield College were surveyed. There were 7 responses, 2 from City, 1 from Hillsborough and 4 from Norton.

#### Tutors were asked "What resources are available in the classrooms where you teach numeracy?"

Tutors that teach in the workplace or the community have to manage without many of the resources that are on the main sites, but even main site students do not have access to computers in most classrooms.

Many numeracy teaching rooms lack basic resources such as mini white boards, active learning resources, calculators, measuring equipment, shapes and traffic light cards.

The problem is partly lack of storage facilities. A typical comment from staff when asked about active learning resources was "I make my own but there is nowhere to store them here"

Tutors were asked "Are there any resources that you are aware of that are not currently available that would improve your students learning?"

IWB software such as Mymaths or Whiteboardmaths or Boardworks. More active learning resources

Tutors were asked "How often do your students do the following?"

By using a points system I constructed the following league table of most frequent activities in class.

The low use of presentations is partly due to the lack of projectors/IWB but also lack of good software. Low use of mini white boards may indicate a training need.

	Homework	30
	Get verbal feedback on progress	30
	Individual work	30
	Fill in diary sheets on ILP	26
	Group work	25
)	Get written feedback on homework or assignments	24
	Use active learning resources	22
	Do practical work eg measuring/weighing	19
	Practice tests	18
	Do open ended tasks such as investigations.	11
	Fill in review sheets on ILP	10
	Watch a presentation (eg powerpoint/video)	10
	Use mini white boards	6

Tutors were asked "If there was one thing you could change to improve numeracy teaching at Sheffield College what would it be?"

Cross college resource bank	More classes so waiting list can be reduced	Purchase good IWB maths software	Rethink ILP ready for Functional Skills and use generic targets	Student centred rather than target driven approach
	f their studies			ege take that still have E3,L1 and L2 learners in same group.
following web encourage yo students to u	our Adult Numera	1. the 2. acy 3. 4. 5. 6.	move-on.org.uk bbc.co.uk/skills skillsworkshop mathswithgraha bbc.co.uk/bites you tube transum.org	wise am.org.uk

#### How does Sheffield College differ from an outstanding College?

A team from Sheffield College visited Bradford College in February 2012. Things that impressed us included •A continuously staffed maths workshop where students from any course could access support with maths.

•Every classroom had an interactive white board.

•Mymaths/whiteboard maths resource for Interactive White Boards. •The new Edexcel qualification Level 1/2 Number and Measure which may be ideal for our ESOL 16-18 students.

The most significant difference between the two colleges was that Bradford had a much stricter initial assessment procedure which excluded students who were unlikely to pass.

#### What is changing at Sheffield College as a result of this research? Recommendations

•	We are investigating which IWB maths package will be best for us.
	We are producing a comprehensive set of Tarsia puzzles for each site to be stored in Learning Centres.
•	We are considering offering drop in maths workshops.
•	We have created a cross college network folder to share resources.
	We are looking at how we can improve the enrolment process to level classes and ensure students are on a course where they will succeed.
•	Publicity to use some of the student quotes to advertise numeracy lessons.

#### Literature

Ofsted: A good adult numeracy tutor. 2011 http://www.ofsted.gov.uk/resources/tackling-challenge-of-lownumeracy-skills-young-people-and-adults Ofsted:Sheffield College Report 2010 http://www.ofsted.gov.uk/inspection-reports/find-inspectionreport/provider/ELS/130531 Collaborative Learning in Mathematics. Malcolm Swan 2006 Prosperity for all n the global economy- world class skills. Leitch Review of skills http://www.hm-treasury.gov.uk/d/leitch\_finalreport051206.pdf Mini white boards and discussion

https://www.ncetm.org.uk/community/thread/9232