"IF D&T WASN'T SO EASY, I WOULDN'T BE SO

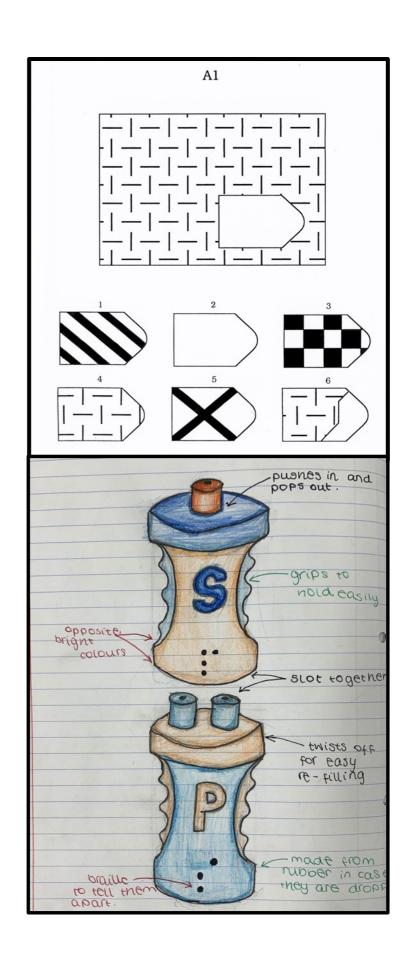
GOOD AT IT":

An Action Research Project Exploring Nonverbal Ability and Confidence.

Alexander Augustus Greenhalgh | PATT40 Paper 36 | Session 6 | 12:35-13:00 | 2023

HELLO! TODAY I WILL...

- Introduce myself and sprint through my career
- Explain the rationale behind my research
- Explain the methodology of my action research
- Present the results
- Discuss the findings, failures, and takeaways
- Q&A (if we have time)



ARTIST / DESIGNER / EDUCATOR

- Masters of Education
- Lecturer in BA Environment Design, Architecture Department









ARTIST / DESIGNER / EDUCATOR

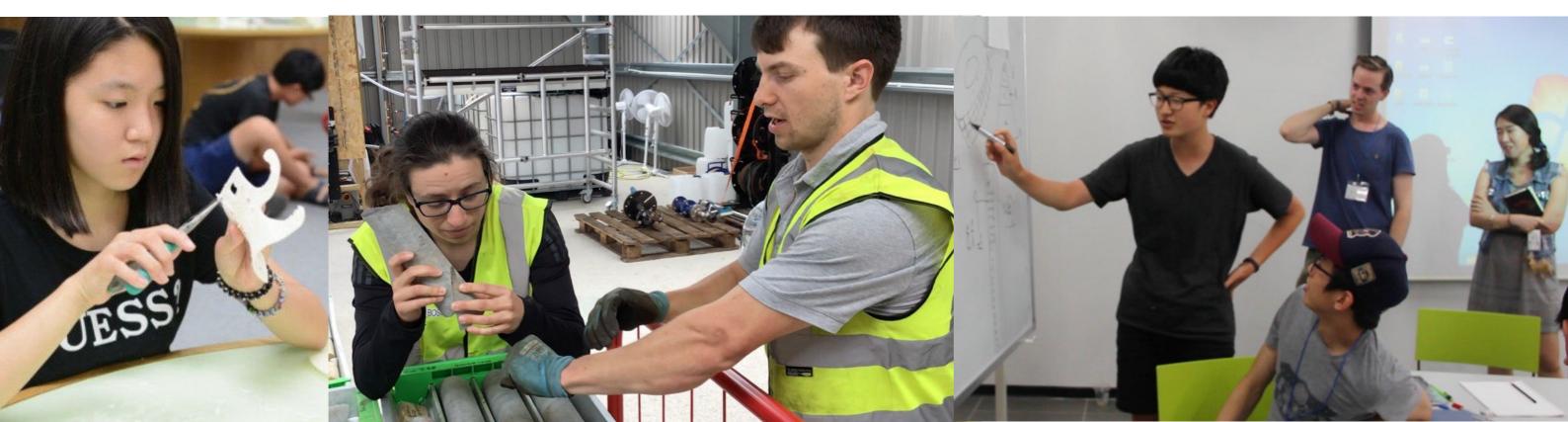




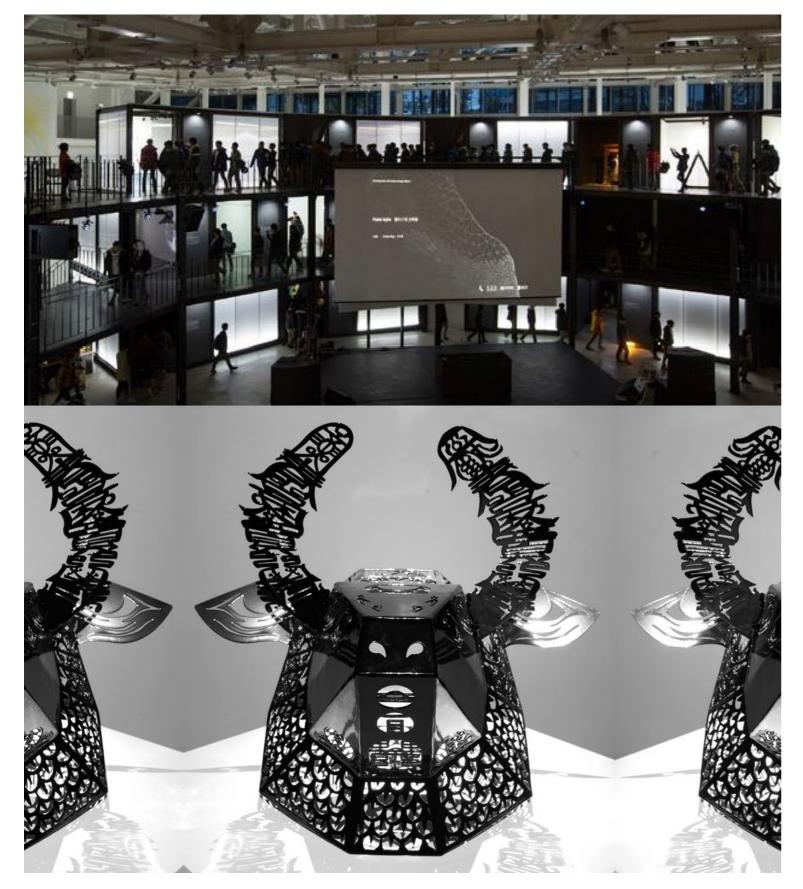


PROJECT BASED / COLLABORATIVE / EDUCATIONAL



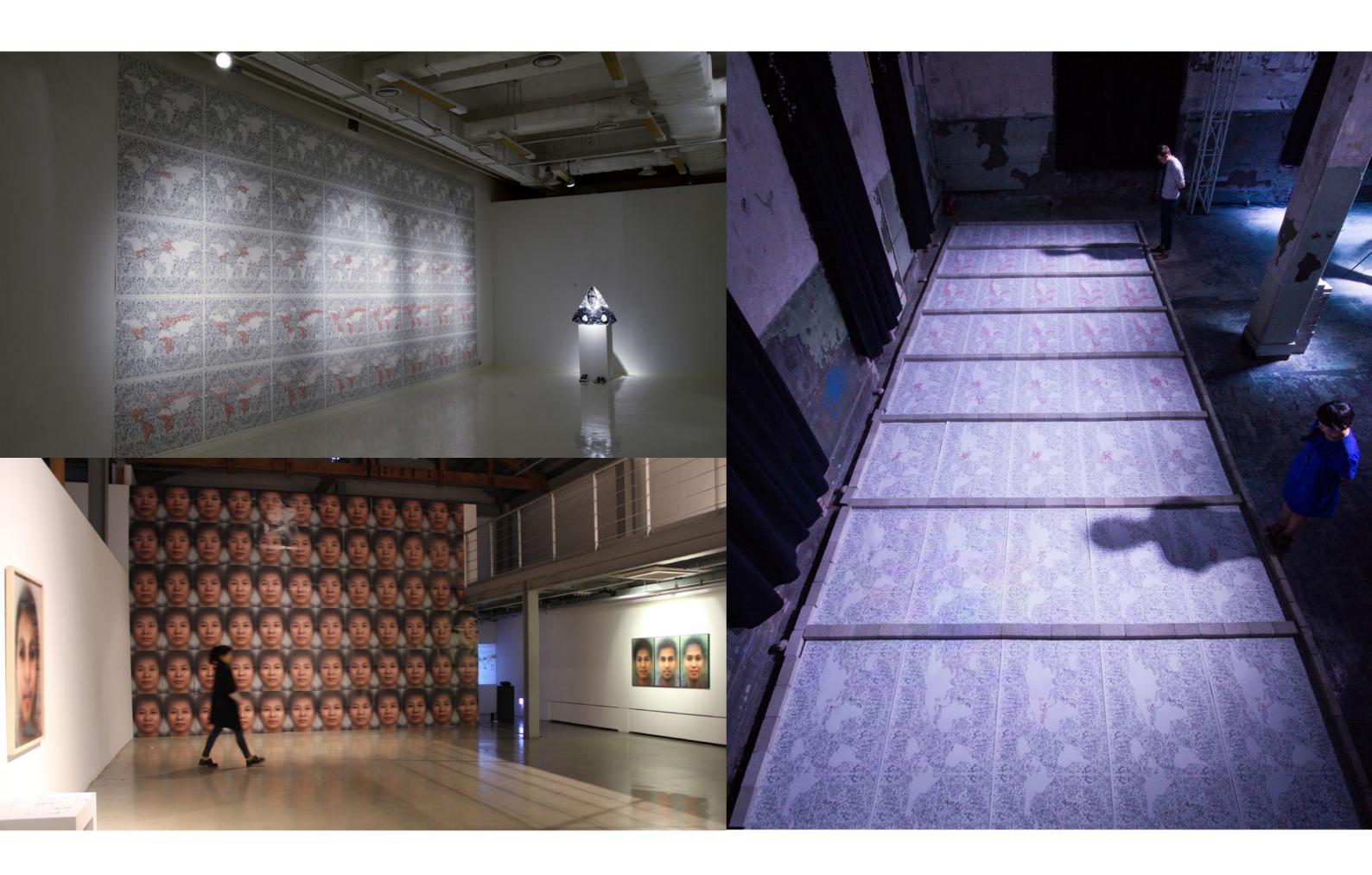


INTERDISCIPLINARY GALLERY ENVIRONMENTS

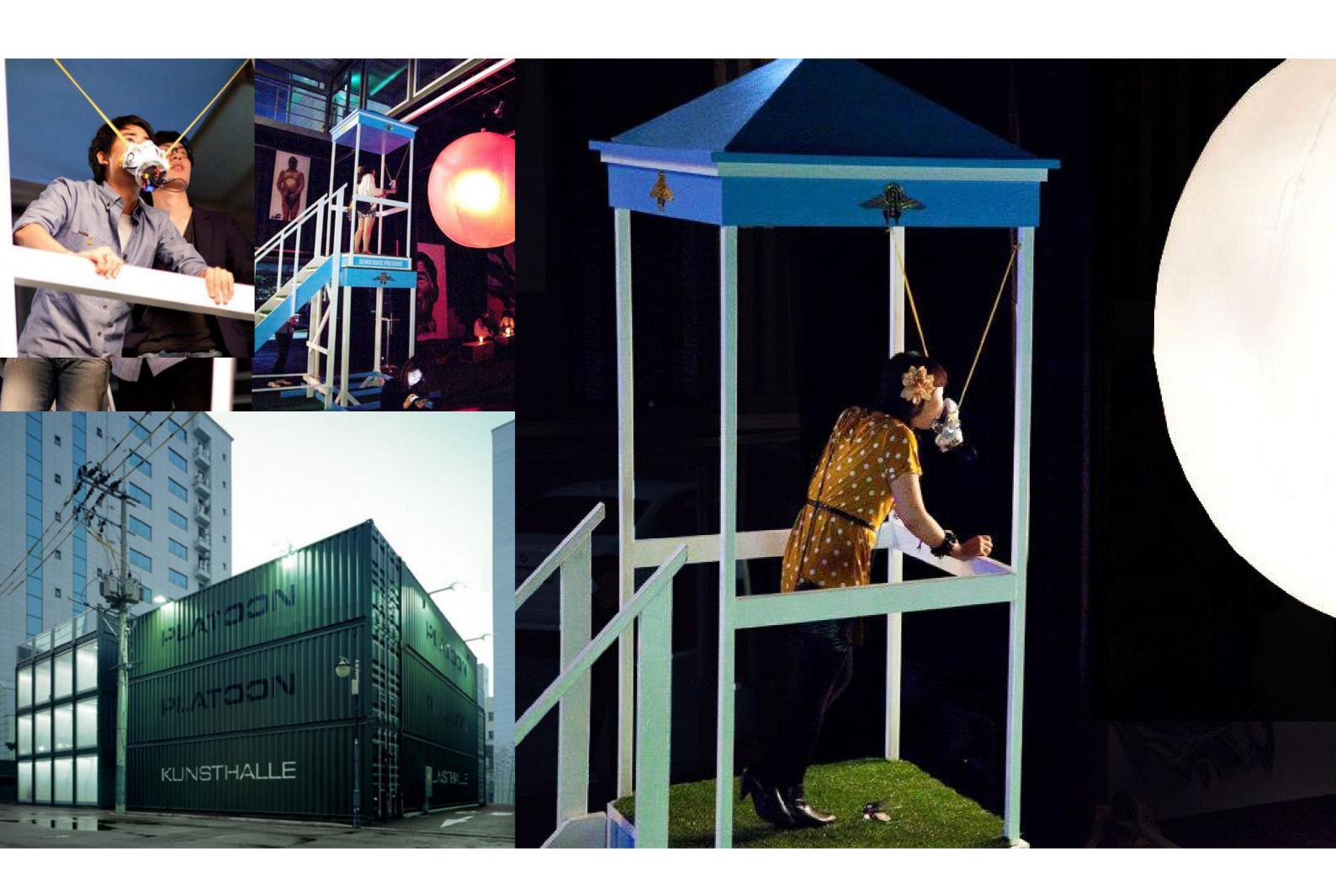




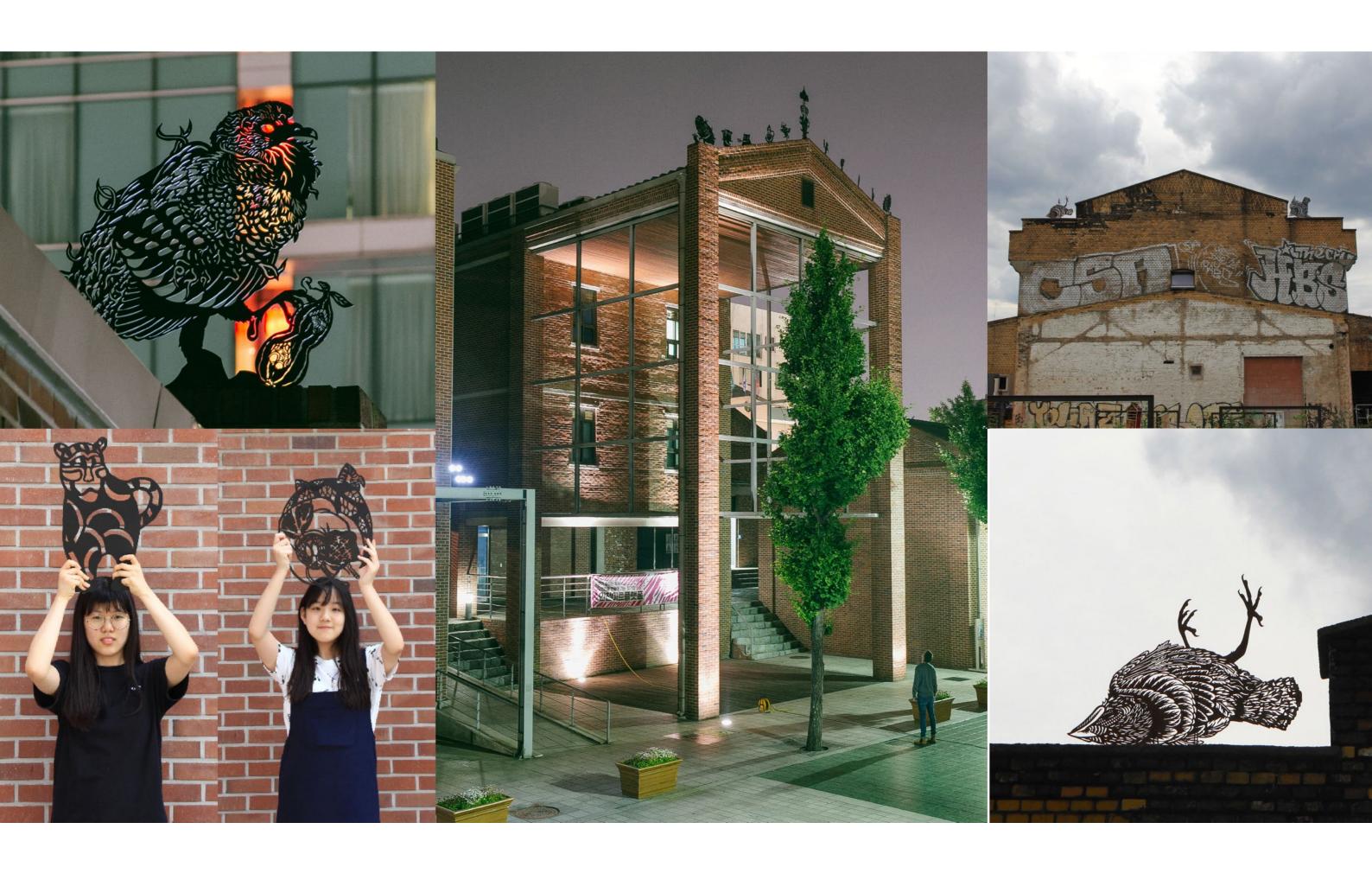
MUSEUM EXHIBITIONS



INTERACTIVE MEDIA



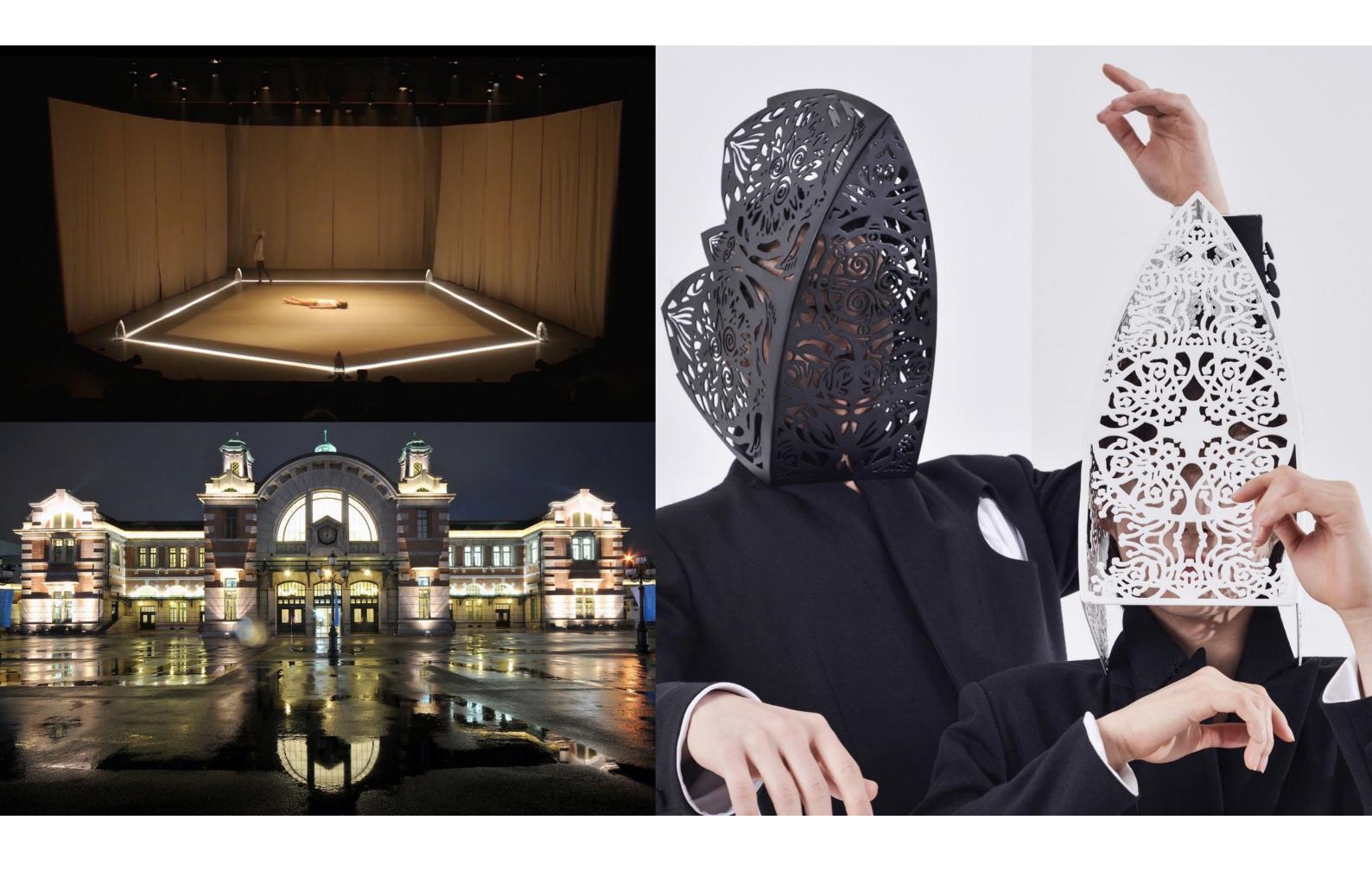
PERMANENT / COMMUNITY-BASED SCULPTURE



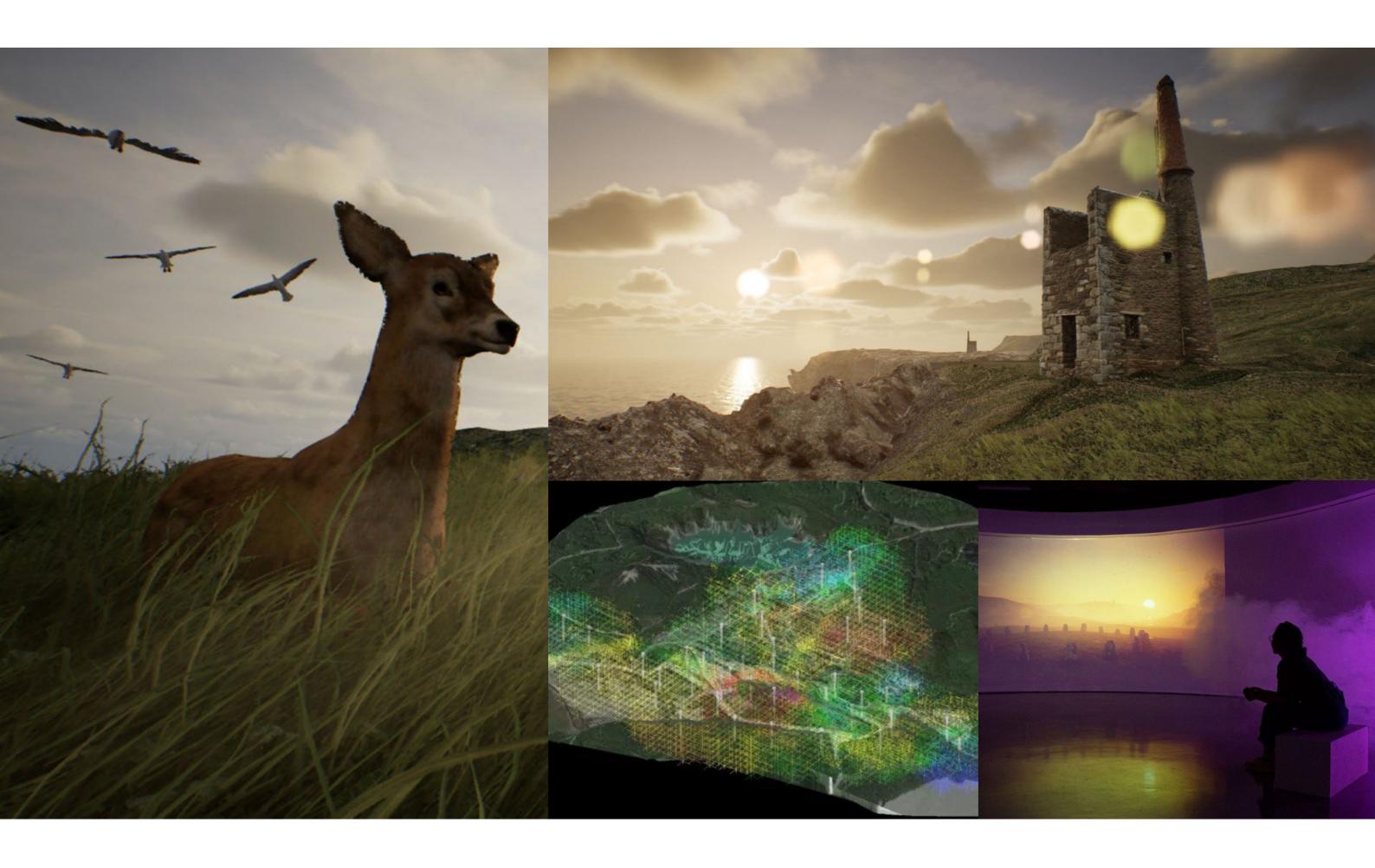
THEATRE DESIGN / PLAYS



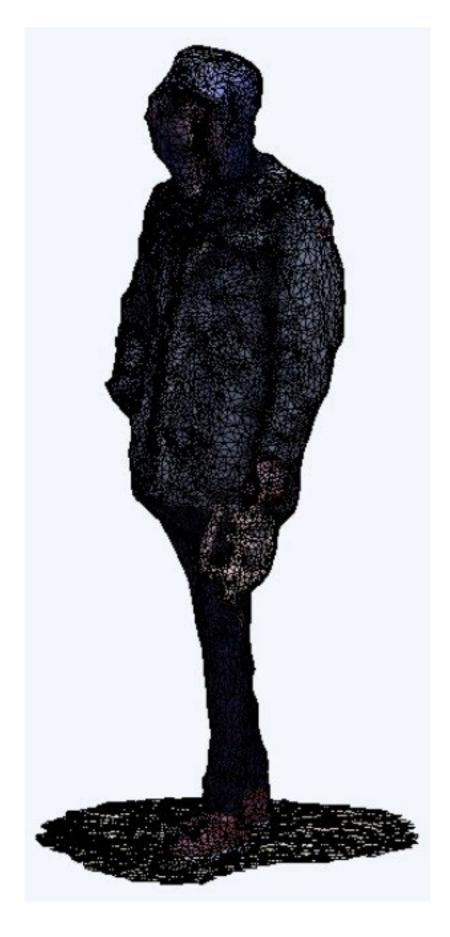
THEATRE DESIGN / CONTEMPORARY DANCE



COMPUTER GAMES / VIRTUAL ENVIRONMENTS

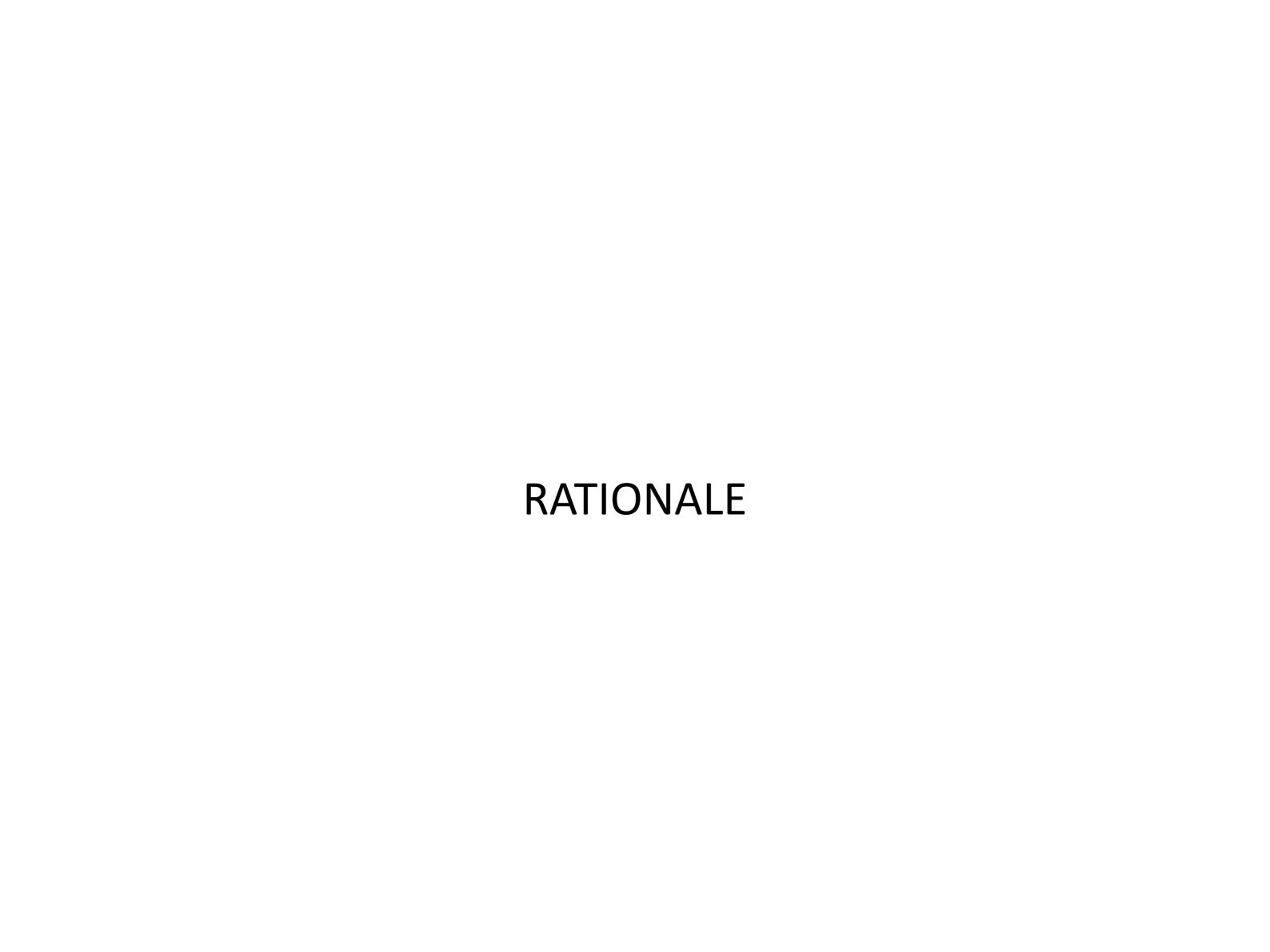


SYNTHESIS OF DIGITAL AND ANALOGUE





DESIGN ABILITY ≠ CONFIDENCE



RATIONALE - PERSONAL

Roman, Had no gun pouder so they had no big guns but
they did have caturalts.

Romans that catapanets.

Romans that catapanets.

Catapanets with wound stoms where colled ballstas.

Catapanets fired arrows, led bulets or wound stom balls.

A single shot catapanet could knock someone out or equen
kill soumond. Someone

Roman poltry

Roman poltry usally had a wound or pouty bottomic balls.

The pounty bottom ball is allness used for drink or likered.

The most comon paten is the Greek samos one.

See Me please.

Religion
Cortain People believed different
Soution poeple blived in Sustan gods depending where they come
from your expanses people from somewhere wear a river blow
in neptures. Nepture

Sound good's are named after plants like veams, mans and tests
more.

Amer Armour

Citizens

Chain

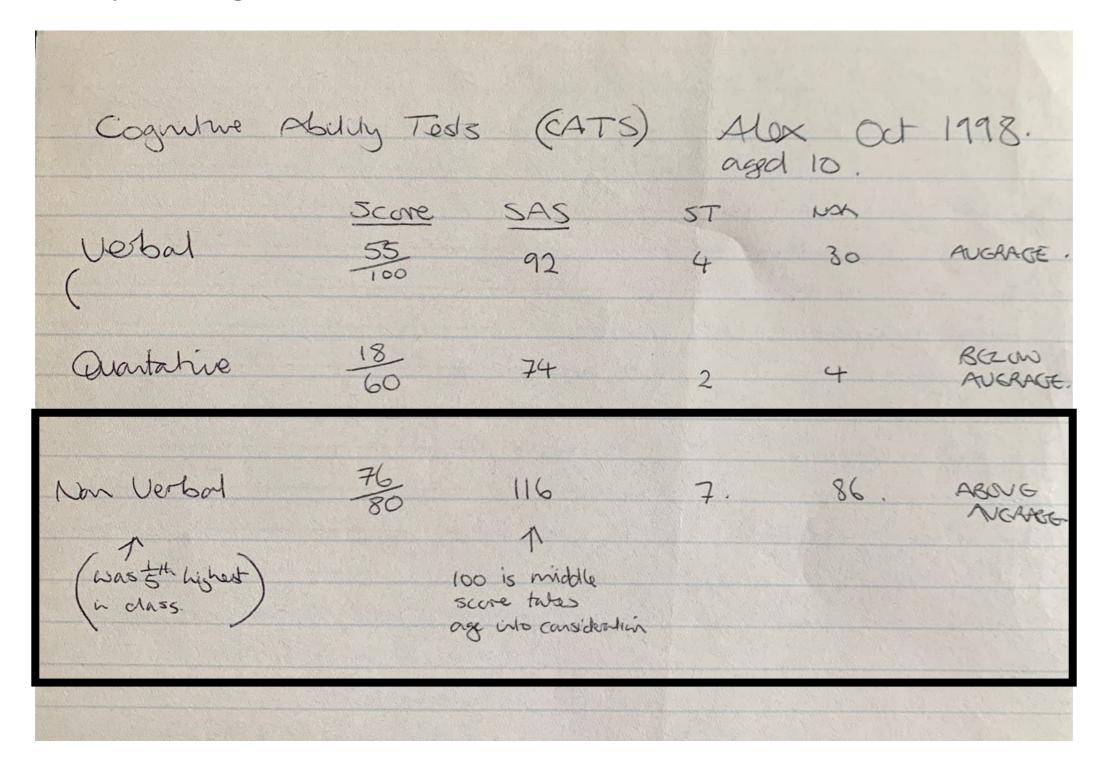
Roman Sitisans where ast if they wanted to wear share
mate or the new amer for work and they wanted to have

armour

Pieces mettle bent found the body and tild.

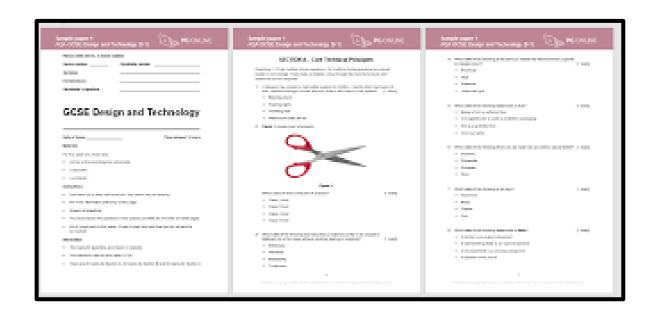
RATIONALE - PERSONAL

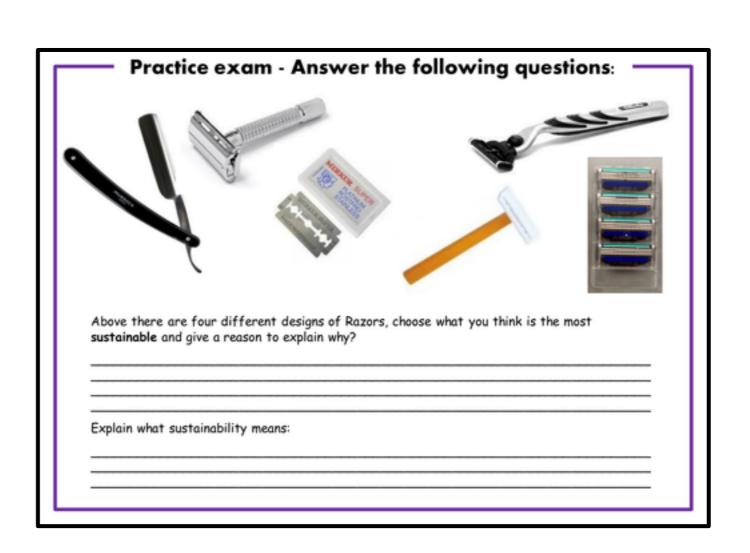
Cognitive ability testing.



 Non-verbal reasoning - "thinking with shapes". This doesn't involve reading but measures a child's ability to solve problems using shapes or patterns and is similar to a typical IQ test.

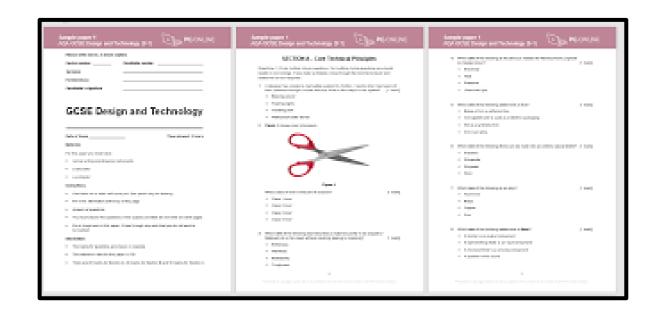
I was shocked to see that the D&T assessment methods did not reflect the realities
of the design industry well at all. Memory and literacy based.

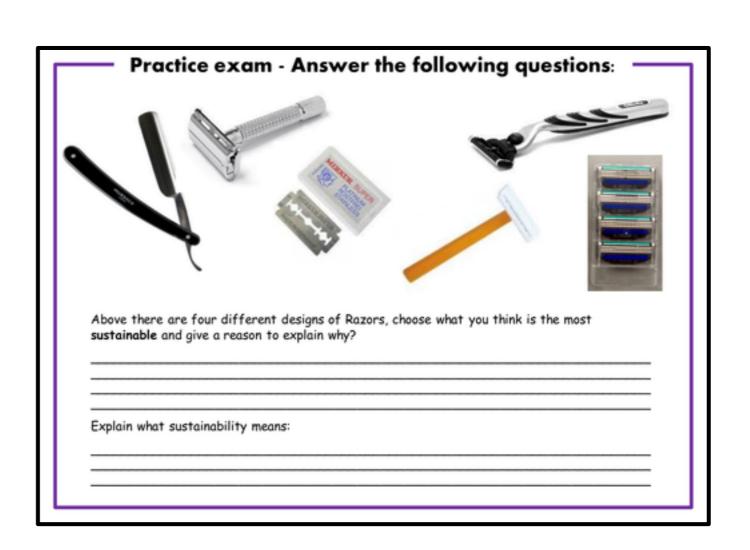




- GCSEs and A Level assessment in D&T:
- 50% written, memory-based exam 2 hours total.
- 50% coursework, hugely based on literacy and only 15% practical design work.

I was shocked to see that the D&T assessment methods did not reflect the realities
of the design industry well at all. Memory and literacy based.





- A Level assessment in D&T:
- 50% written, memory-based exams 2 papers 4 hours total.
- 50% coursework, hugely based on literacy and only 15% practical design work.

During my teacher training placements, I became aware that highly capable teachers and students in the Design and Technology (D&T) department considered themselves unintelligent due to a lack of literacy, working memory or low attainment in academic subjects such as English, mathematics or sciences.

"I'm only a DT teacher, but the MEd from Cambridge made other teachers take me seriously."

Participant

"If D&T wasn't so easy, I wouldn't be so good at it."

- D&T teacher

"You have an ethical obligation to steer intelligent students away from D&T GCSE and A Level – good universities don't respect it."

Participant

"I can't believe D&T teacher training gets funding."

- Participant

"I'm good at drawing but I'm not the sharpest, Sir."

- School student

"Let's do the easy option, I'm thick."

- School student

"I'm good at sports, and I love music, but I'm not too bright."

- School student

AIMS

- Associate creative, problem-solving abilities and D&T with intelligence.

- Identify students who show intelligence and talent in the subject.

- Boost the confidence of students who show intelligence and talent in the subject.

RESEARCH QUESTIONS

 RQ1. What are the existing perceptions of intelligence required to do well in the subject of D&T in relation to other subjects?

 RQ2. What are the levels of self-perceived confidence for students with an aptitude for D&T, as indicated through my self-efficacy tests before my intervention?

 RQ3. Has there been a change to the levels of self-perceived confidence for students with an aptitude for D&T, as indicated through my self-efficacy tests after my intervention?

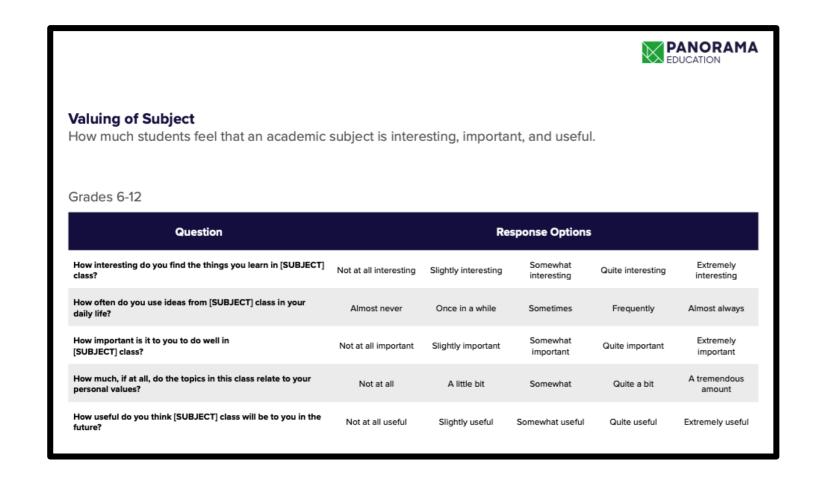
MY PLAN

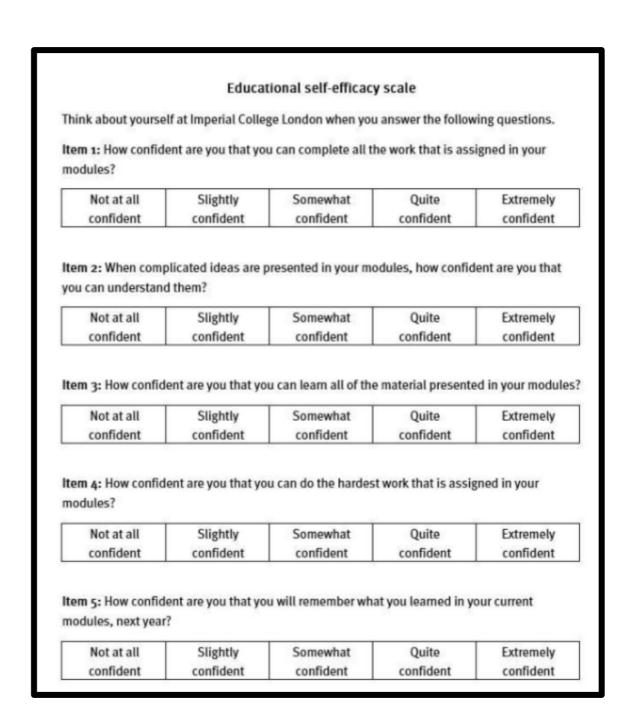
Confidence test at the start of the intervention.

Action research to identify and boost the confidence of students showing design-specific intelligences.

Second confidence test at the end of the intervention, to measure the impact.







- Self-efficacy / self-concept
- I adapted scales from Jorgen Frost and Ernst Ottem, Nadya Fouad and Philip Smith, and Panorama Education.
- These scales attempted to measure self-efficacy in high schools.

Self-efficacy, self-perception test, comparing 12 core subjects.

"How confident are you that you can do the hardest work that is assigned in your core subjects?"

Not at all intollinger Cightly intollinger
Design & Technology Not at all menigent signly menigent somewhat menigent
English Not at all intelligent Sightly intelligent Somewhat intelligent
Geography Not at all intelligent Slightly intelligent Somewhat intelligent
History Not at all intelligent Slightly intelligent Somewhat intelligent
ICT & Computer Science Not at all intelligent Slightly intelligent Somewhat intelligent
Mathematics Not at all intelligent Sightly intelligent Somewhat intelligent
Music Not at all intelligent Slightly intelligent Somewhat intelligent
Modern Foreign Languages Not at all intelligent Slightly intelligent Somewhat intelligent
Physical Education Not at all intelligent Slightly intelligent Somewhat intelligent
Religious Education Not at all intelligent Sightly intelligent Somewhat intelligent
Science Not at all intelligent Slightly intelligent Somewhat intelligent

How intelligent do you need to be to do well in these core subjects?

Self-concept, self-perception test, comparing 12 core subjects.

"How intelligent do you need to be to do well in these core subjects?"

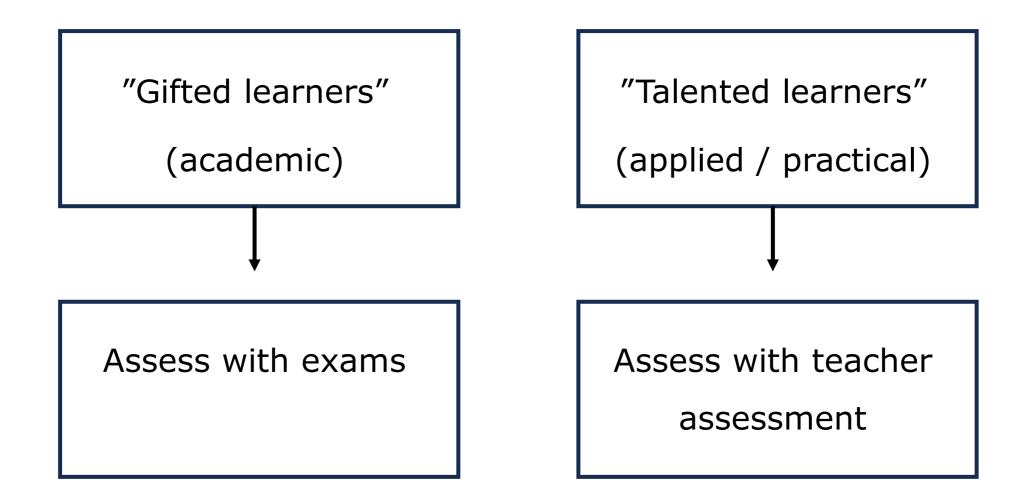
TESTING FOR DESIGN ABILITY

+

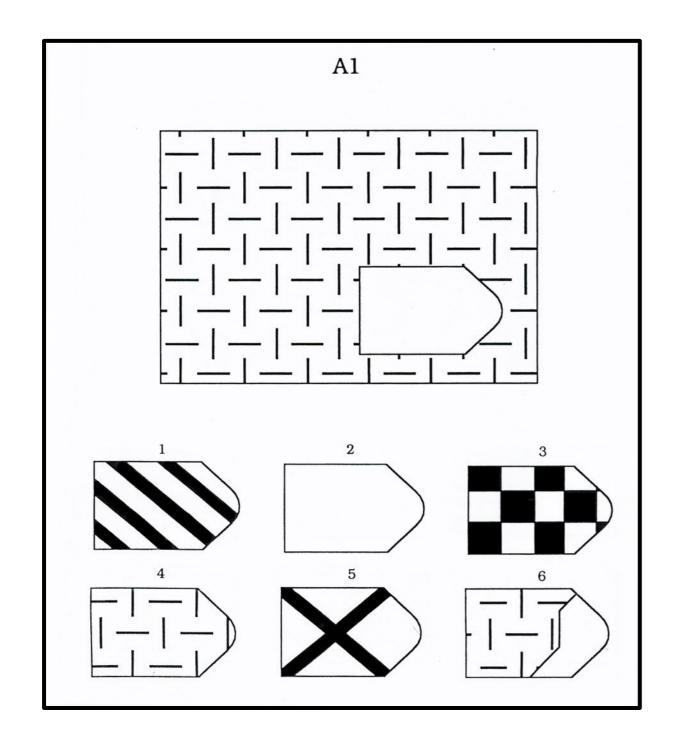
BOOSTING CONFIDENCE

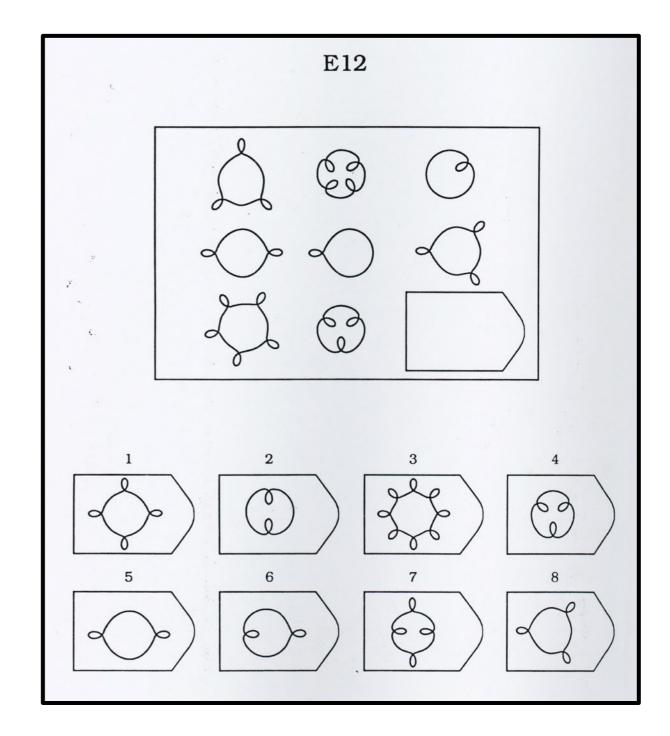
UK DEPARTMENT FOR CHILDREN, SCHOOLS & FAMILIES (2007-

10)

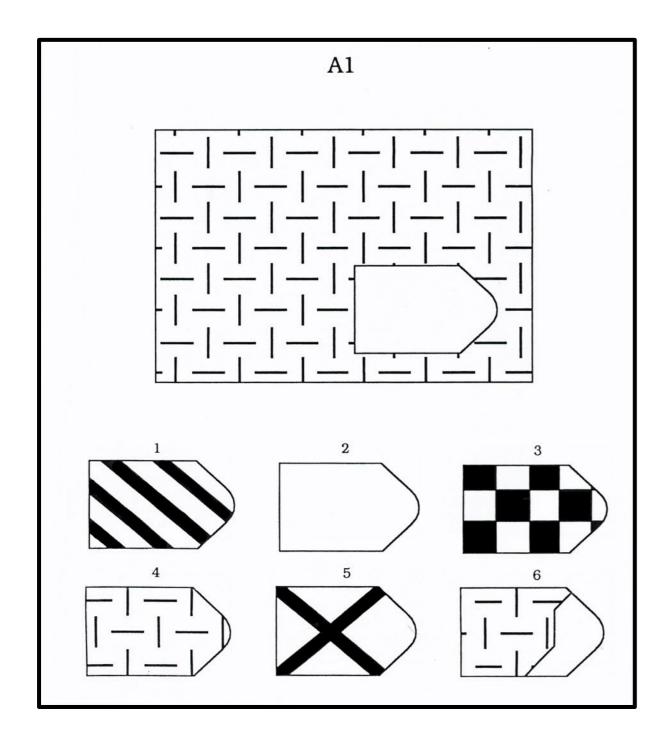


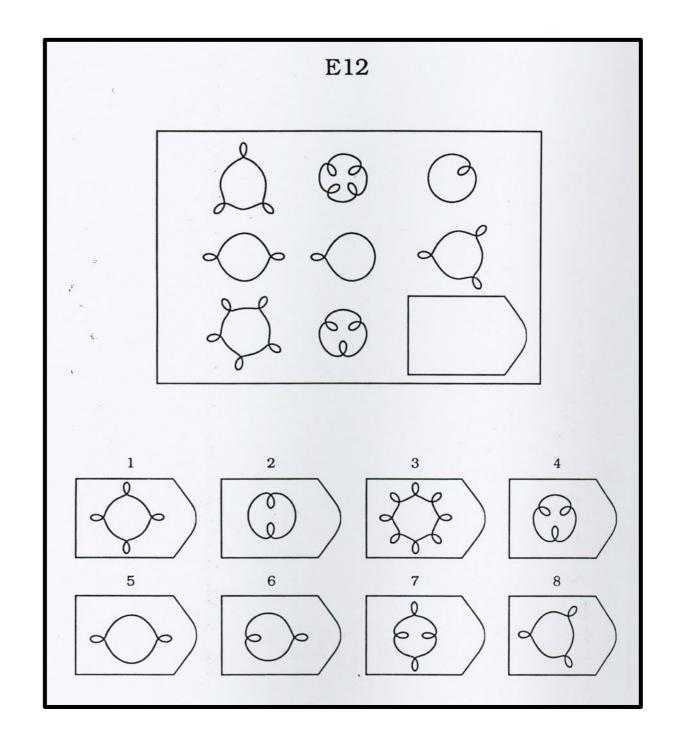
- D&T is somewhere between these.
- There is no D&T-specific assessment in England.
- Twissell suggests using nonverbal subsets of CATS exams.





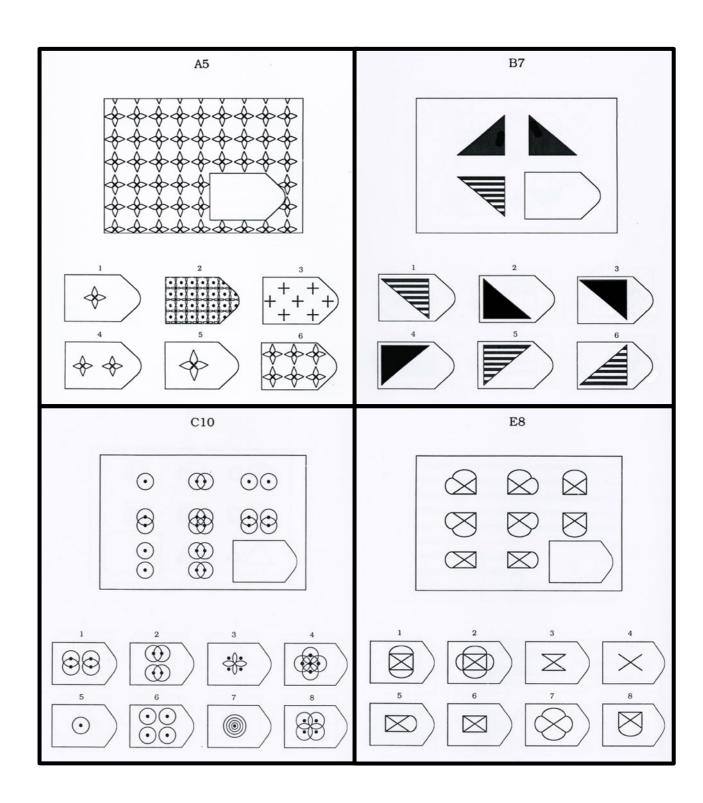
- My placement school SEND Hub gave me the Raven's Progressive Matrices (RPM)
- Measure "Eductive", problem-solving intelligence





- "Raven's Progressive Matrices are a widely used measure of nonverbal intelligence, often cited in studies of cognitive ability, confidence and learning disabilities..."
- No literacy or memory required

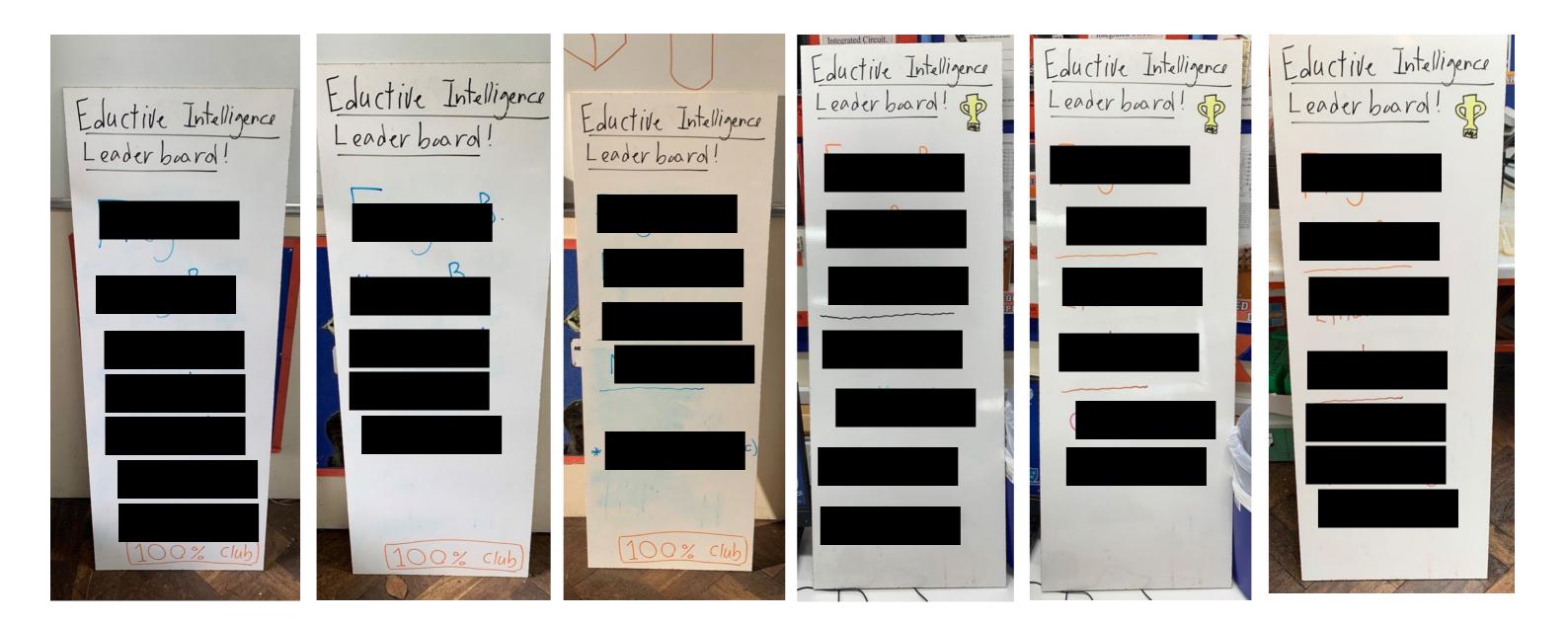
ame:					
Q. No.	Α	В	С	D	Е
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
Set Total					



- First 10 minutes of each lesson
- Students logged answers in this grid
- Then we reviewed answers from last lesson

LEADERBOARDS

- Extrinsic reinforcement of achievement
- Adding novelty, competition and engagement to the class
- Public display of those with the best "eductive" intelligences



LEADERBOARDS

- Extrinsic reinforcement of achievement
- Adding novelty, competition and engagement to the class
- Public display of those with the best "eductive" intelligences
- The winners in the final lesson to win plastic trophies, visible on the shelf

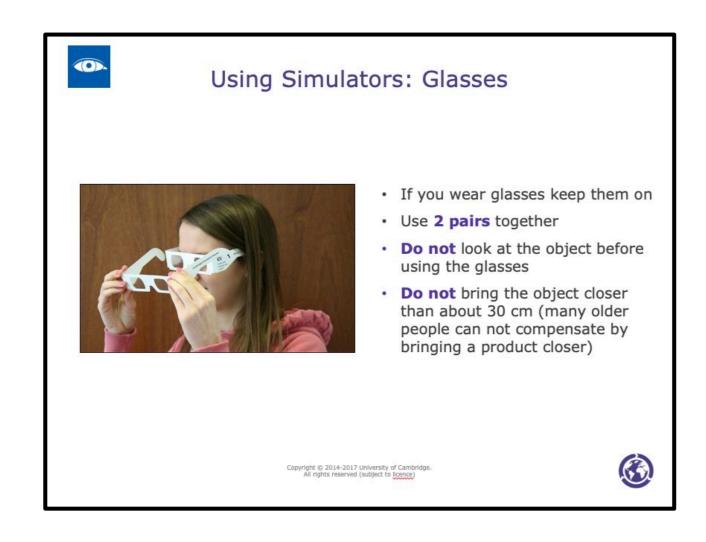


LEADERBOARDS

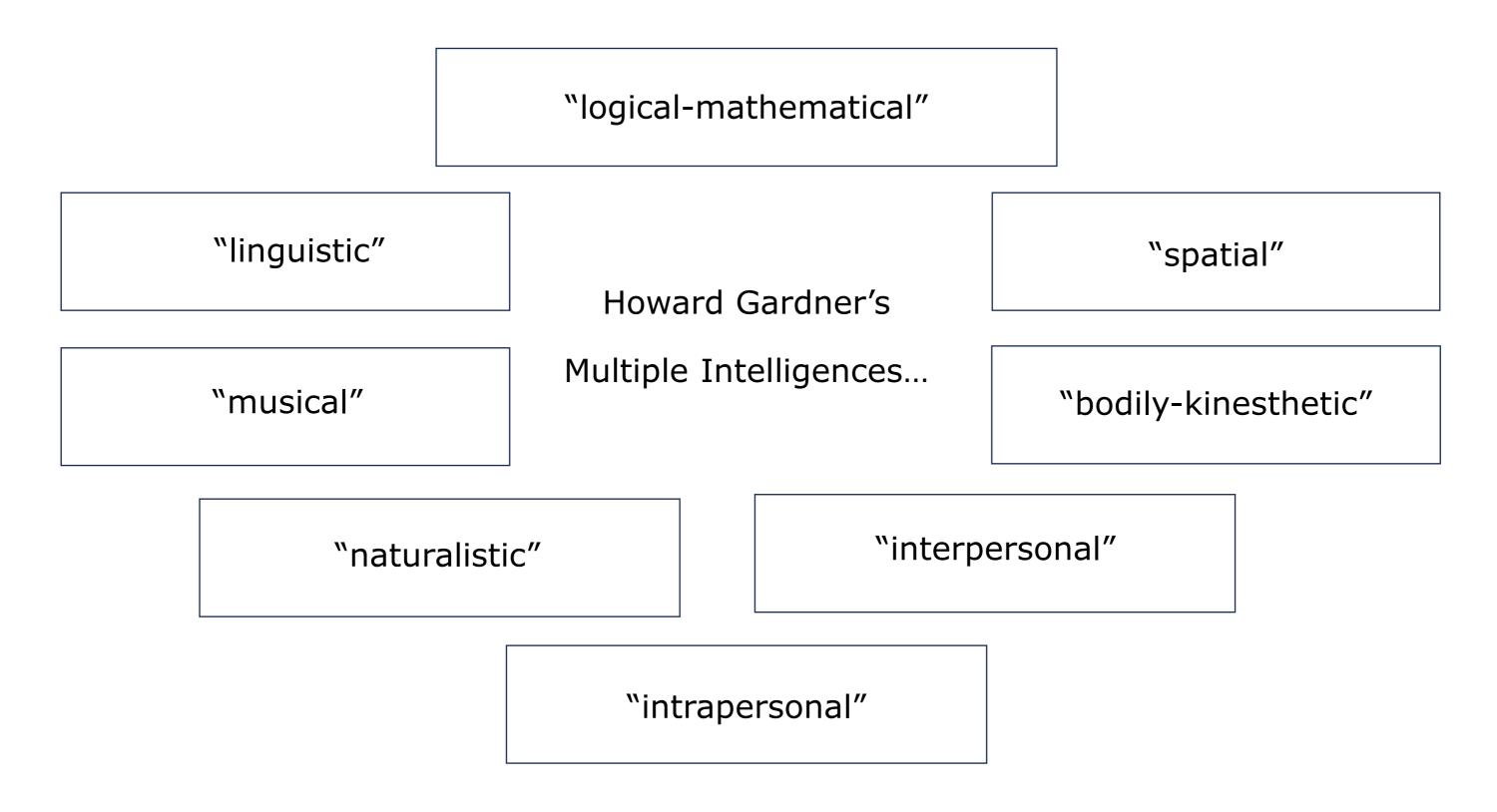
Celebrating a type of intelligence which is not normally celebrated in the classroom.

SCHEME OF WORK – DOT BOX

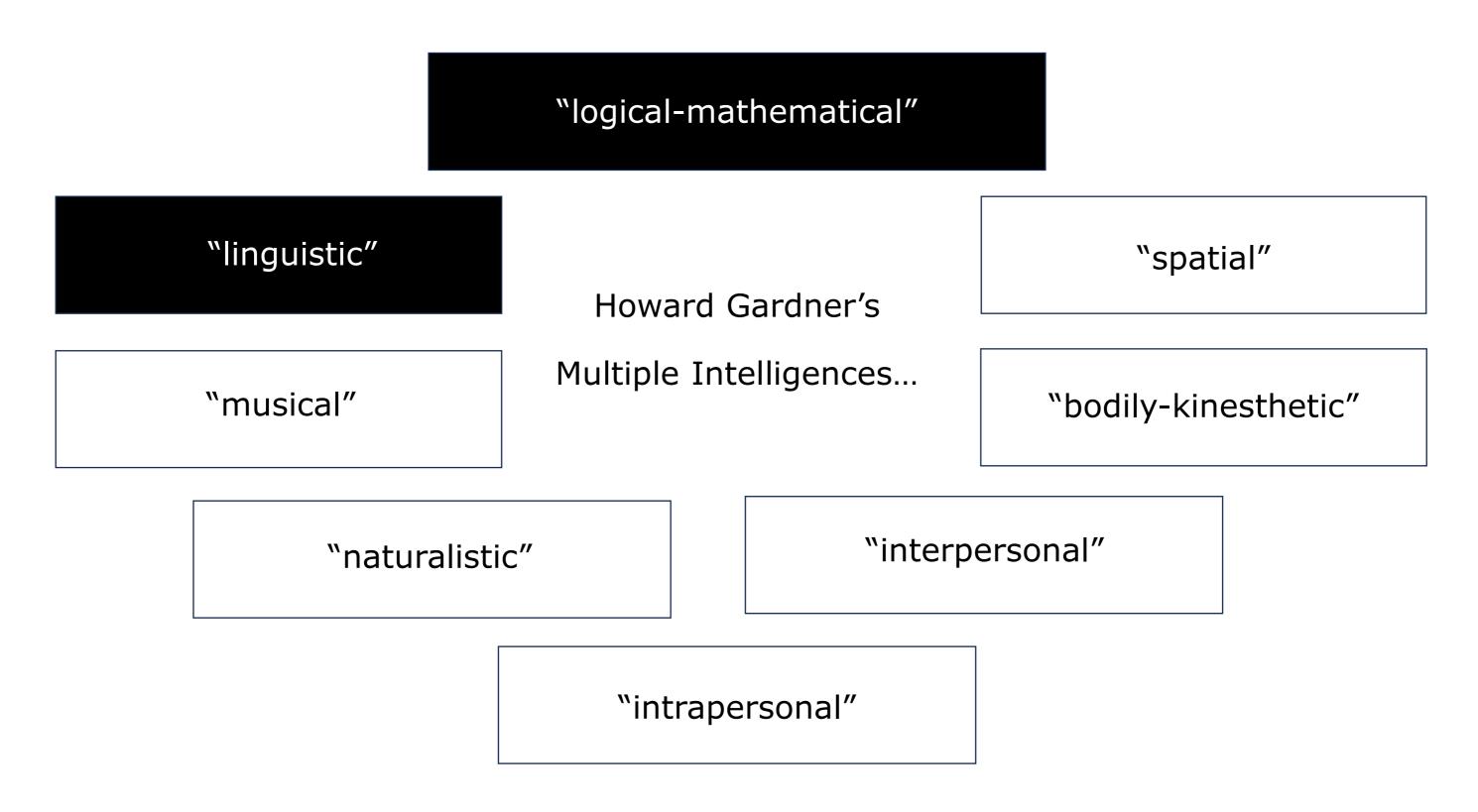
- I chose to run my research with a Unit called "DOT Box"
- Created by Bill Nicholl and Ian Hosking (2009)
- Experiential, and activating many types of skill and intelligence in order to design a salt and pepper shaker (Spatial / bodily-kinesthetic / inter and intrapersonal)







- Gardner asserted that across all subjects, only two types of intelligences were being valued and tested for in state schools; "linguistic" and "logical-mathematical"
- He called these "academic intelligence"

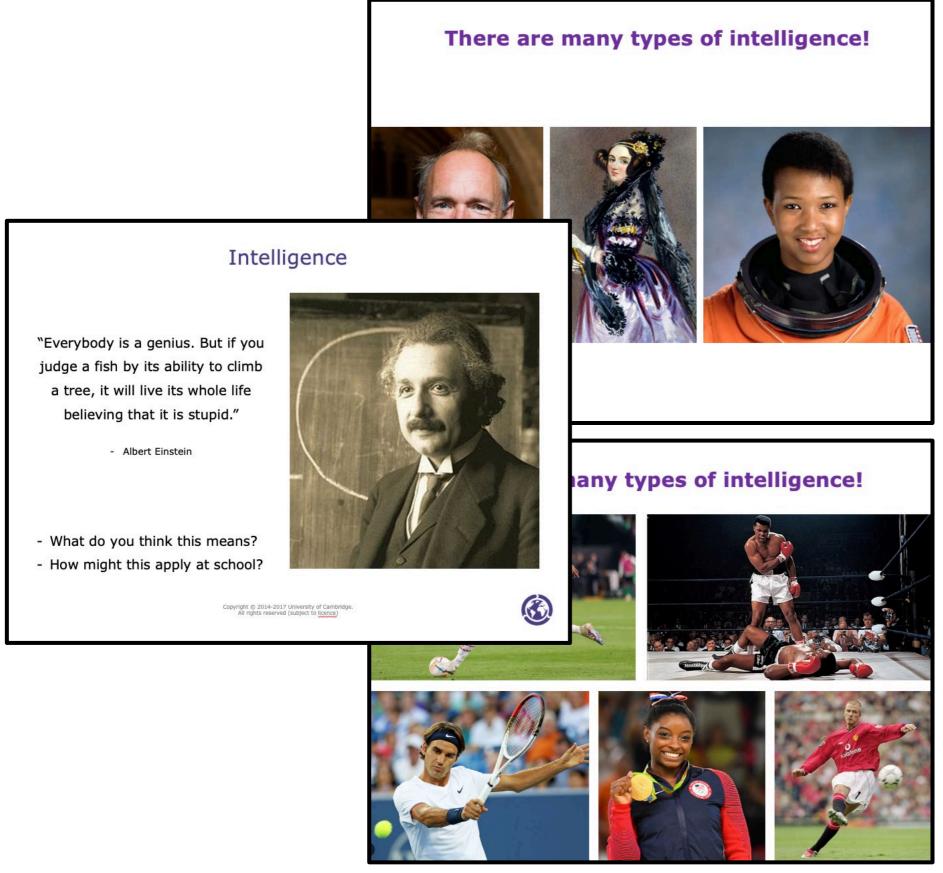


- This is consistent with D&T exam and coursework assessment
- Neither "spatial", "bodily-kinesthetic" nor collaborative intelligences are highly graded

"logical-mathematical" "linguistic" "spatial" Howard Gardner's Multiple Intelligences... "musical" "bodily-kinesthetic" "interpersonal" "naturalistic" "intrapersonal"

- Gardner criticised for failing to establish measures these intelligences
- Neuroscience factor studies show no evidence for individual processes for these
- Regardless, my research takes inspiration from the ambitions of the eight intelligences as "intelligence profiles", rather than scientifically falsifiable cognitive measures

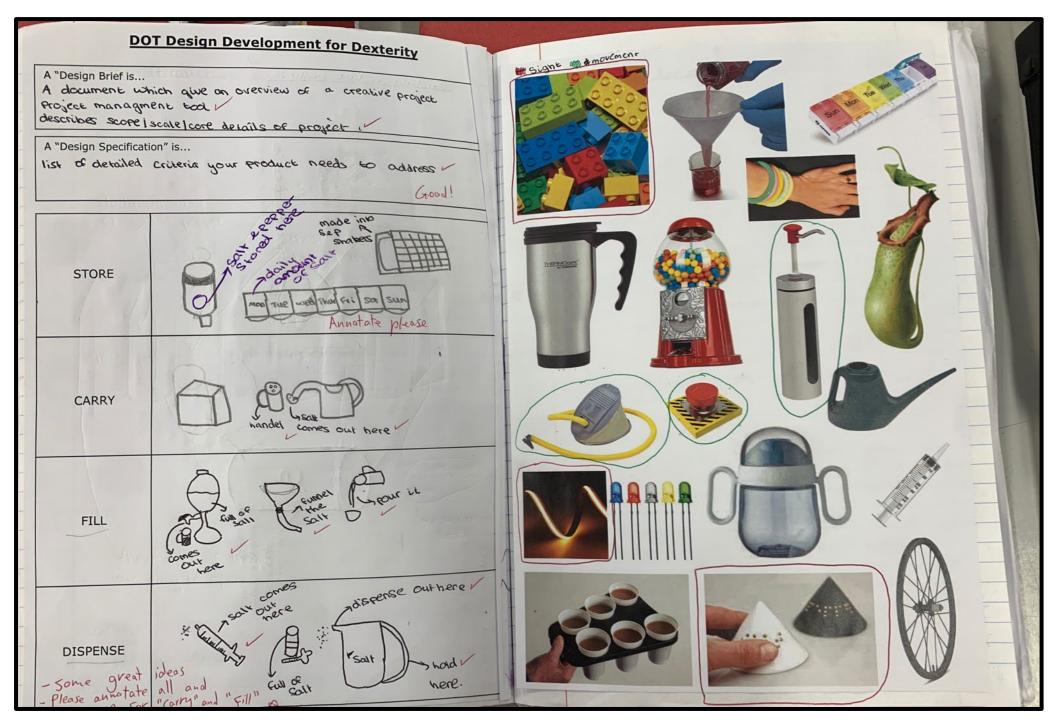
- Using the 8 intelligences to structure praise and verbal persuasion in class

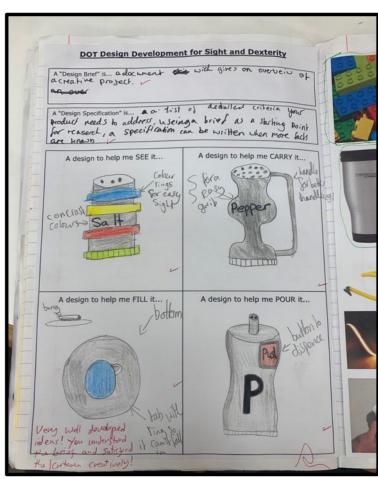


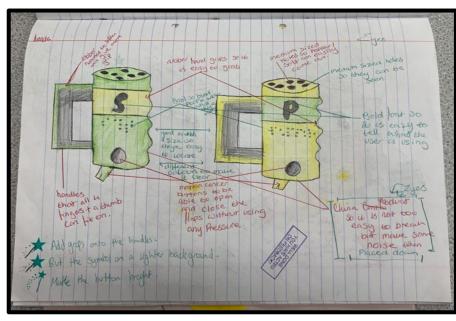




- I adapted this to reduce the amount of literacy / memory, "academic intelligences" needed







METHODOLOGY

Self-efficacy test + self-concept test at the start of the intervention.

SoW promoting problem-solving, spatial thinking, collaboration

+

Verbal praise / persuasion of different intelligence types.

RPM tests in the first 10 minutes of every class

+

A leaderboard celebrating top "eductive" intelligence scores.

Self-efficacy test + self-concept test at the end of the intervention + Interviews.

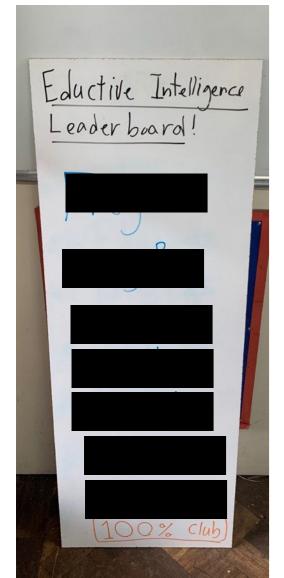
SAMPLE

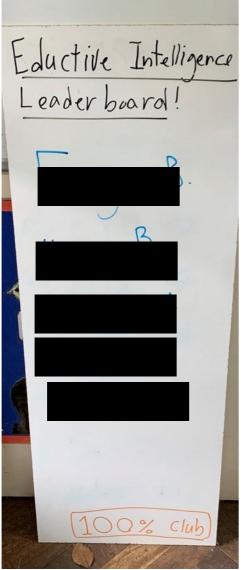
- 21 Year 8 students
- Mixed-ability D&T class at a rural
 Norfolk secondary school
- 11 male and 10 female students
- 2 were ethnically Black, 17 White
 British and 2 White European
- 2 EAL
- 10 SEND
- 6 Pupil Premium students

Student	SEND profile	EAL	Pupil Premium
Student 1	No	No	Yes
Student 2	No	No	Yes
Student 3	No	Yes	No
Student 4	Yes	No	No
Student 5	No	No	No
Student 6	No	No	No
Student 7	No	No	No
Student 8	No	No	No
Student 9	No	No	Yes
Student 10	Yes	No	No
Student 11	No	No	No
Student 12	Yes	No	No
Student 13	Yes	No	No
Student 14	Yes	Yes	No
Student 15	Yes	No	Yes
Student 16	Yes	No	Yes
Student 17	Yes	No	No
Student 18	Yes	No	No
Student 19	Yes	No	No
Student 20	No	No	No
Student 21	No	No	Yes

LOGGING LEADERBOARDS

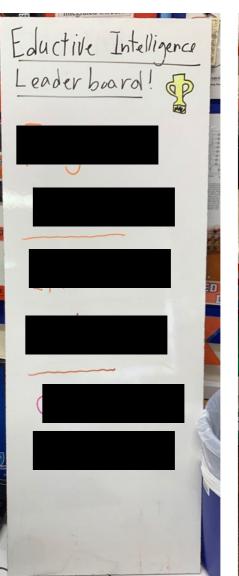
Leaderboard 1	Leaderboard 2	Leaderboard 3	Leaderboard 4	Leaderboard 5	Leaderboard 6	Leaderboard 7
Student 4 (first place)	Student 4 (first place)	Student 4 (first place)	Student 4 (first place)	Student 4 (second place)	Student 4 (second place)	Student 4 (second place)
Student 5 (first place)	Student 5 (first place)	Student 5 (first place)	Student 5 (first place)	Student 5 (first place)	Student 5 (first place)	Student 5 (first place)
Student 9 (first place)	Student 9 (first place)	Student 9 (first place)	Student 9 (first place)	Student 9 (first place)	Student 9 (first place)	Student 9 (first place)
Student 10 (first place)	Student 10 (first place)					
Student 15 (first place)				Student 15 (fourth place)		Student 15 (fourth place)
Student 17 (first place)						
Student 19 (first place)					Student 19 (third place)	Student 19 (third place)
	Student 3 (first place)			Student 3 (fourth place)		
		Student 18 (second place)		Student 18 (fourth place)	Student 18 (third place)	Student 18 (fourth place)
				Student 12 (third place)	Student 12 (second place)	Student 12 (second place)

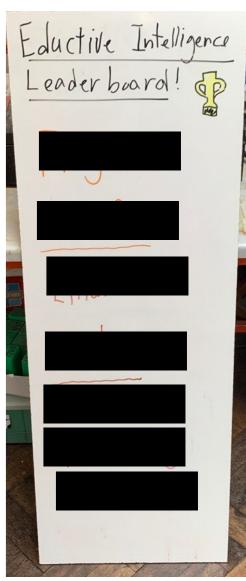














SURVEY COMPARISONS – WHOLE CLASS

HOW INTELLIGENT DO YOU NEED TO BE TO DO WELL IN THESE CORE SUBJECTS? (First survey)

Danny Myslik 3	Olddon	741 G Design	0.1.	English	Ocography	rinacory	101	Macroniacos	1410310		1.5	14.2.	Odicinoo	intelligence survey Lesson i	
Eva Potanitis 3 2 4 3 4 4 4 4 4 4 2 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Danny Myslik	3	3	4	4	4	5	5	1	1	3	4	5	1,2) Science / Mathematics	4.1
Freya Bailey	Eilidh McIntyre	3	3	4	4	3	5	5	4	1	2	2	5	3) ICT	3.8
Henry Betson 5 4 3 4 4 4 4 5 5 5 3 3 5 5 1 1 3 4 4 4 4 4 5 5 5 5 3 3 5 5 1 1 3 3 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5	Eva Potamitis	3	2	4	3	4	4	4	4	4	2	3	4	4) Art and Design	3.7
Isla Seal	Freya Bailey	4	4	4	3	2	3	2	4	2	3	2	3	5) History	3.6
Mailee Webb 3 2 4 3 4 4 3 4 2 5 1 3 Nate Haworth 5 4 2 3 5 1 3 2 1 5 2 3 Nathaniel James 3 4 2 3 4 5 5 4 4 5 3 5 Oliver Hausden 4 4 4 3 3 2 5 2 3 2 2 4 Total 37 32 34 32 36 38 41 34 28 31 25 41 Average 3.70 3.20 3.40 3.20 3.60 3.80 4.10 3.40 2.80 3.10 2.50 4.10 HOW CONFIDENT ARE YOU THAT YOU CAN DO THE HARDEST WORK THAT IS ASSIGNED IN YOUR SUBJECTS? (First survey) Student Art & Design D.T. English Geography History ICT	Henry Betson	5	4	3	4	4	4	4	5	5	3	3	5	6,7) English / Music	3.4
Nate Haworth 5 4 2 3 5 1 3 2 1 5 2 3 Nathaniel James 3 4 2 3 4 5 5 5 4 4 4 5 5 3 5 5 0 1 0 1 5 5 2 3 1 5 0 1 0 1 5 5 2 3 1 5 0 1 0 1 5 5 2 1 3 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Isla Seal	4	2	3	2	3	5	5	4	5	1	3	4	8,9) DT / Geography	3.2
Nathaniel James 3 4 2 3 4 5 5 5 4 4 4 5 5 3 5 5 00 1 1 4 4 3 3 3 2 5 5 2 2 3 3 2 2 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Mailee Webb	3	2	4	3	4	4	3	4	2	5	1	3	10) P.E.	3.1
Oliver Hausden	Nate Haworth	5	4	2	3	5	1	3	2	1	5	2	3	11) MFL	2.8
Total 37 32 34 32 36 38 41 34 28 31 25 41 Average 3.70 3.20 3.40 3.20 3.60 3.80 4.10 3.40 2.80 3.10 2.50 4.10 HOW CONFIDENT ARE YOU THAT YOU CAN DO THE HARDEST WORK THAT IS ASSIGNED IN YOUR SUBJECTS? (First survey) Student Art & Design D.T. English Geography History ICT Mathematics Music MFL P.E. R.E. Science Danny Myslik 3 4 5 5 5 5 5 5 2 2 2 5 4 5 5 Eilidh McIntyre 2 5 3 1 5 3 2 5 4 3 4 2 Eva Potamitis 4 3 2 4 3 2 1 5 3 4 4 1 Freya Bailey 4 4 3 3 2 4 4 1 3 3 2 4 4 1 3 3 2 4 2 2 Henry Betson 1 4 3 5 5 5 5 3 4 5 3 5	Nathaniel James	3	4	2	3	4	5	5	4	4	5	3	5	12) R.E.	2.5
Average 3.70 3.20 3.40 3.20 3.60 3.80 4.10 3.40 2.80 3.10 2.50 4.10 HOW CONFIDENT ARE YOU THAT YOU CAN DO THE HARDEST WORK THAT IS ASSIGNED IN YOUR SUBJECTS? (First survey) Student Art & Design D.T. English Geography History ICT Mathematics Music MFL P.E. R.E. Science Danny Myslik 3 4 5 5 5 5 2 2 5 4 5 Eilidh McIntyre 2 5 3 1 5 3 2 5 4 3 4 2 Eva Potamitis 4 3 2 4 3 2 1 5 3 4 4 1 Freya Bailey 4 4 3 2 4 4 1 3 2 4 2 2 Henry Betson 1 4 3 5 5 3	Oliver Hausden	4	4	4	3	3	2	5	2	3	2	2	4		
HOW CONFIDENT ARE YOU THAT YOU CAN DO THE HARDEST WORK THAT IS ASSIGNED IN YOUR SUBJECTS? (First survey) Student Art & Design D.T. English Geography History ICT Mathematics Music MFL P.E. R.E. Science Danny Myslik 3 4 5 5 5 5 5 2 2 2 5 4 5 Eilidh McIntyre 2 5 3 1 1 5 3 2 5 4 3 4 2 Eva Potamitis 4 3 2 4 3 2 1 5 3 4 4 1 Freya Bailey 4 4 3 3 2 4 4 1 3 2 4 4 1 3 2 2 4 Henry Betson 1 4 3 5 5 5 3 4 2 3 5 3 5	Total	37	32	34	32	36	38	41	34	28	31	25	41		
Student Art & Design D.T. English Geography History ICT Mathematics Music MFL P.E. R.E. Science Danny Myslik 3 4 5 5 5 5 2 2 5 4 5 Eilidh McIntyre 2 5 3 1 5 3 2 5 4 3 4 2 Eva Potamitis 4 3 2 4 3 2 1 5 3 4 4 1 Freya Bailey 4 4 3 2 4 4 1 3 2 4 2 2 Henry Betson 1 4 3 5 5 3 4 2 3 5 5	Average	3.70	3.20	3.40	3.20	3.60	3.80	4.10	3.40	2.80	3.10	2.50	4.10		
Student Art & Design D.T. English Geography History ICT Mathematics Music MFL P.E. R.E. Science Danny Myslik 3 4 5 5 5 5 2 2 5 4 5 Eilidh McIntyre 2 5 3 1 5 3 2 5 4 3 4 2 Eva Potamitis 4 3 2 4 3 2 1 5 3 4 4 1 Freya Bailey 4 4 3 2 4 4 1 3 2 4 2 2 Henry Betson 1 4 3 5 5 3 4 2 3 5 5															
Danny Myslik 3 4 5 5 5 5 5 5 2 2 2 5 4 5 Eilidh McIntyre 2 5 3 1 5 3 2 5 4 3 4 2 Eva Potamitis 4 3 2 4 3 2 1 5 3 4 4 1 Freya Bailey 4 4 3 2 4 4 1 3 2 4 2 2 Henry Betson 1 4 3 5 5 3 4 2 3 5 3 5	HOW CONFIDENT ARE	YOU THAT YO	U CAN DO THE	HARDEST WOR	K THAT IS ASSI	GNED IN YOUR	SUBJECTS? (Fi	rst survey)							
Etilidh McIntyre 2 5 3 1 5 3 2 5 4 3 4 2 Eva Potamitis 4 3 2 4 3 2 1 5 3 4 4 1 Freya Bailey 4 4 3 2 4 4 1 3 2 4 2 2 Henry Betson 1 4 3 5 5 3 4 2 3 5 3 5		Art & Design	D.T.	English	Geography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Confidence survey Lesson 1	
Eva Potamitis 4 3 2 4 3 2 1 5 3 4 4 1 Freya Bailey 4 4 3 2 4 4 1 3 2 4 2 2 Henry Betson 1 4 3 5 5 3 4 2 3 5 3 5	Danny Myslik	3	4	5	5	5	5	5	2	2	5	4	5	1) P.E.	4.2
Freya Bailey 4 4 3 2 4 4 1 3 2 4 2 2 Henry Betson 1 4 3 5 5 3 4 2 3 5 3 5	Eilidh McIntyre	2	5	3	1	5	3	2	5	4	3	4	2	2,3) DT / History	3.9
Henry Betson 1 4 3 5 5 3 4 2 3 5 3 5	Eva Potamitis	4	3	2	4	3	2	1	5	3	4	4	1	4) ICT	3.7
	Freya Bailey	4	4	3	2	4	4	1	3	2	4	2	2	5,6,7) Science / Maths / Engl	3.4
	Henry Betson	1	4	3	5	5	3	4	2	3	5	3	5	8) Music	3.3
Isla Seal 4 2 3 2 3 5 5 4 5 1 3 4	Isla Seal	4	2	3	2	3	5	5	4	5	1	3	4	9) Art and Design	3.2
Mailee Webb 3 4 4 2 3 4 3 5 1 5 2 3	Mailee Webb	3	4	4	2	3	4	3	5	1	5	2	3	10) Geography	3.1
	Nate Haworth	4	5	3	3	4	3	3	3	1	5	2	3	8) R.E.	2.9
Nate Haworth 4 5 3 3 4 3 3 1 5 2 3	Nathaniel James	5	5	4	3	4	5	5	3	2	5	2	5	9) MFL	2.6
	Oliver Hausden	2	3			3	3	5		3	5				

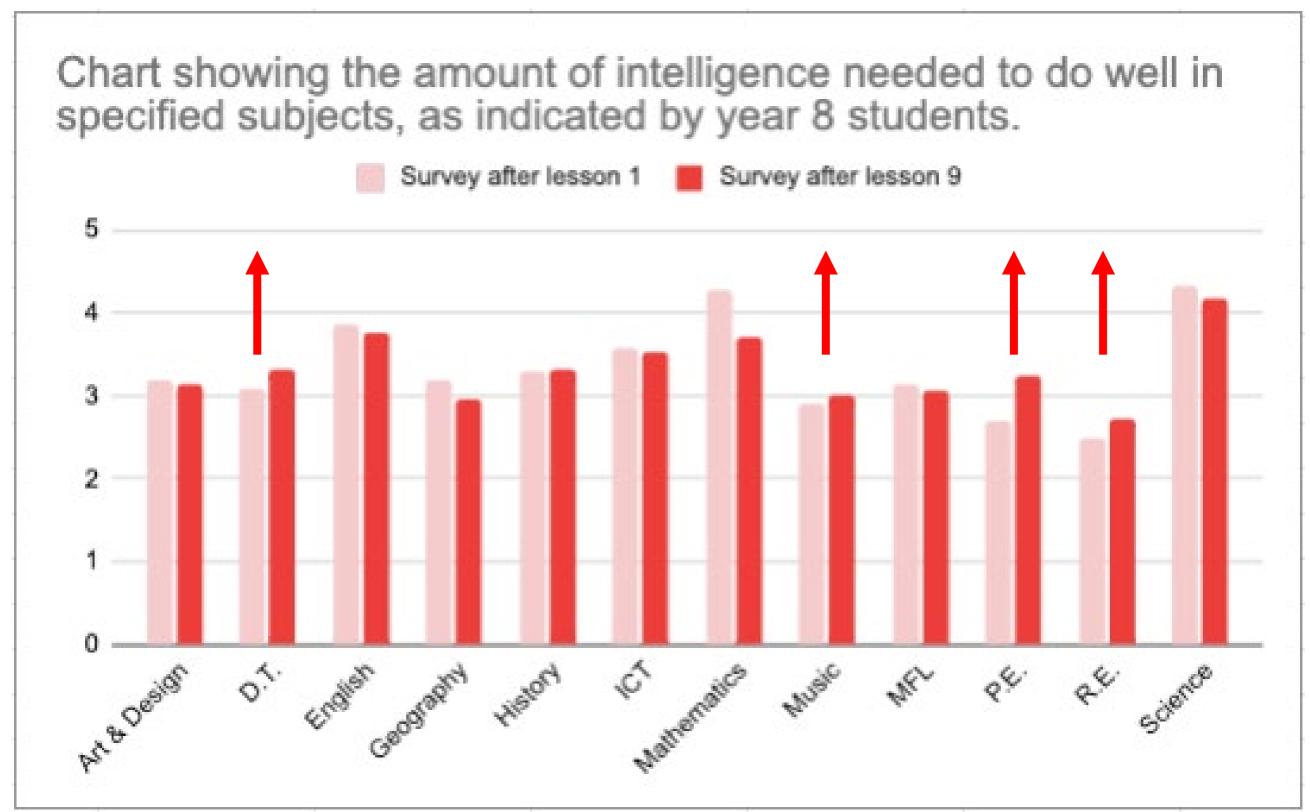
Surveys Lesson 1

HOW INTELLIGENT DO	YOU NEED TO	BE TO DO WEI	L IN THESE CO	RE SUBJECTS?	(second survey	r)								
Student	Art & Design	D.T.	English	Geography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Intelligence survey Lesson 9	
Danny Myslik	3	4	4	5	5	4	5	3	3	4	3	5	1) Science	4.1
Eilidh McIntyre	5	4	3	1	5	3	2	5	3	4	5	4	2) ICT	4
Eva Potamitis	4	3	4	2	2	5	4	4	5	1	2	5	3) Mathematics	3.9
Freya Bailey	4	4	4	2	4	3	2	3	2	2	3	2	4,5,6) History / English / DT	3.8
Henry Betson	4	4	4	4	4	4	4	4	4	4	4	4	7) Art and Design	3.6
Isla Seal	3	3	4	2	4	5	5	4	5	1	3	4	8,9) Music / MFL	3.4
Mailee Webb	3	4	3	3	3	4	4	3	3	4	2	4	10) P.E.	3.3
Nate Haworth	4	4	2	3	3	3	3	2	1	4	3	3	11) R.E.	3.2
Nathaniel James	3	4	5	4	4	5	5	4	4	4	3	5	12) Geography	3
Oliver Hausden	3	4	5	4	4	4	5	2	4	5	4	5		
Total	36	38	38	30	38	40	39	34	34	33	32	41		
Average	3.60	3.80	3.80	3.00	3.80	4.00	3.90	3.40	3.40	3.30	3.20	4.10		
HOW CONFIDENT ARE														
Student	Art & Design	D.T.	English	Geography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Confidence survey Lesson 9	
Danny Myslik	4	4	5	5	5	4	5	3	4	5	4	5	1) History	4.2
Eilidh McIntyre	5	3	1	1	5	4	3	5	1	5	5	2	2) P.E.	3.9
Eva Potamitis	4	4	3	3	4	1	1	5	2	2	4	2	3) DT	3.8
Freya Bailey	4	4	4	2	4	5	2	3	2	3	2	2	4,5) Science / Art	3.6
Henry Betson	1	3	2	4	5	3	3	2	2	5	3	5	6,7) ICT / Music	3.5
Isla Seal	5	4	3	1	5	4	3	5	4	1	2	5	8) Mathematics	3.3
Mailee Webb	3	4	3	2	3	3	4	4	2	5	3	3	9,10) English / R.E.	3.2
Nate Haworth	3	3	2	3	3	2	2	2	2	3	2	2	11) Geography	2.9
Nathaniel James	3	4	4	3	4	5	5	3	2	5	3	5	12) MFL	2.5
Oliver Hausden	4	5	5	5	4	4	5	3	4	5	4	5		
Total	36	38	32	29	42	35	33	35	25	39	32	36		
Average	3.60	3.80	3.20	2.90	4.20	3.50	3.30	3.50	2.50	3.90	3.20	3.60		

Surveys Lesson 9

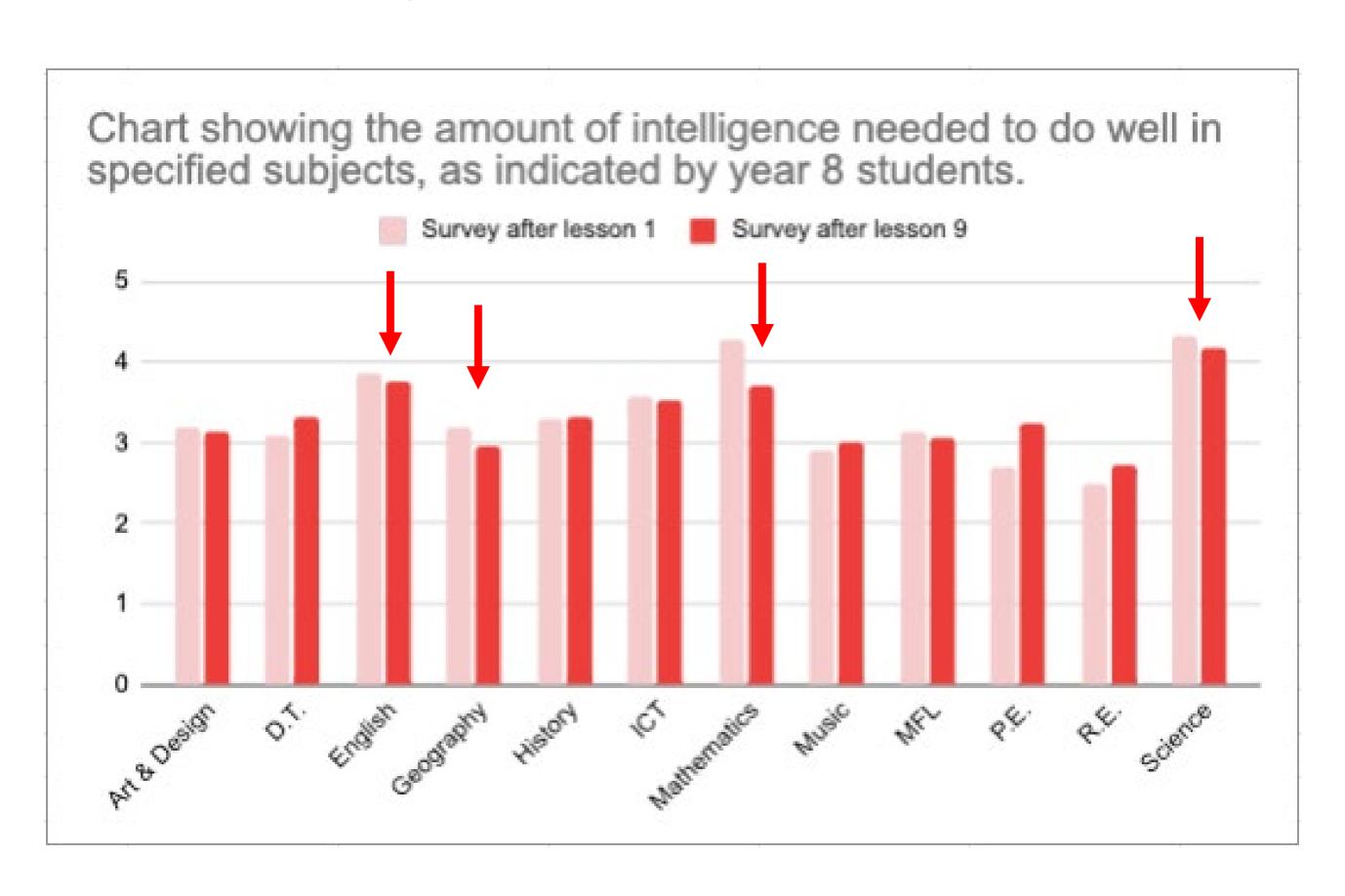
- From the pre-intervention survey to the post-intervention survey the students have identified D&T as requiring more intelligence, rising from 3.1 to 3.33.
- Compared to other subjects, D&T went from 8th place to 5th overtaking history, art, geography and MFL

Intelligence sur	vey Lesson 1	Intelligence sur	vey Lesson 9
1) Science	4.33	1) Science	4.19
2) Mathematics	4.29	2) English	3.76
3) English	3.86	3) Mathematics	3.71
4) ICT	3.57	4) ICT	3.52
5) History	3.29	5) DT	3.33
6) Art / Geograph	3.19	6) History	3.31
7) MFL	3.14	7) P.E.	3.24
8) DT	3.1	8) Art & Design	3.14
9) Music	2.9	9) MFL	3.05
10) P.E.	2.71	10) Music	3
11) R.E.	2.48	11) Geography	2.95
		12) R.E.	2.73



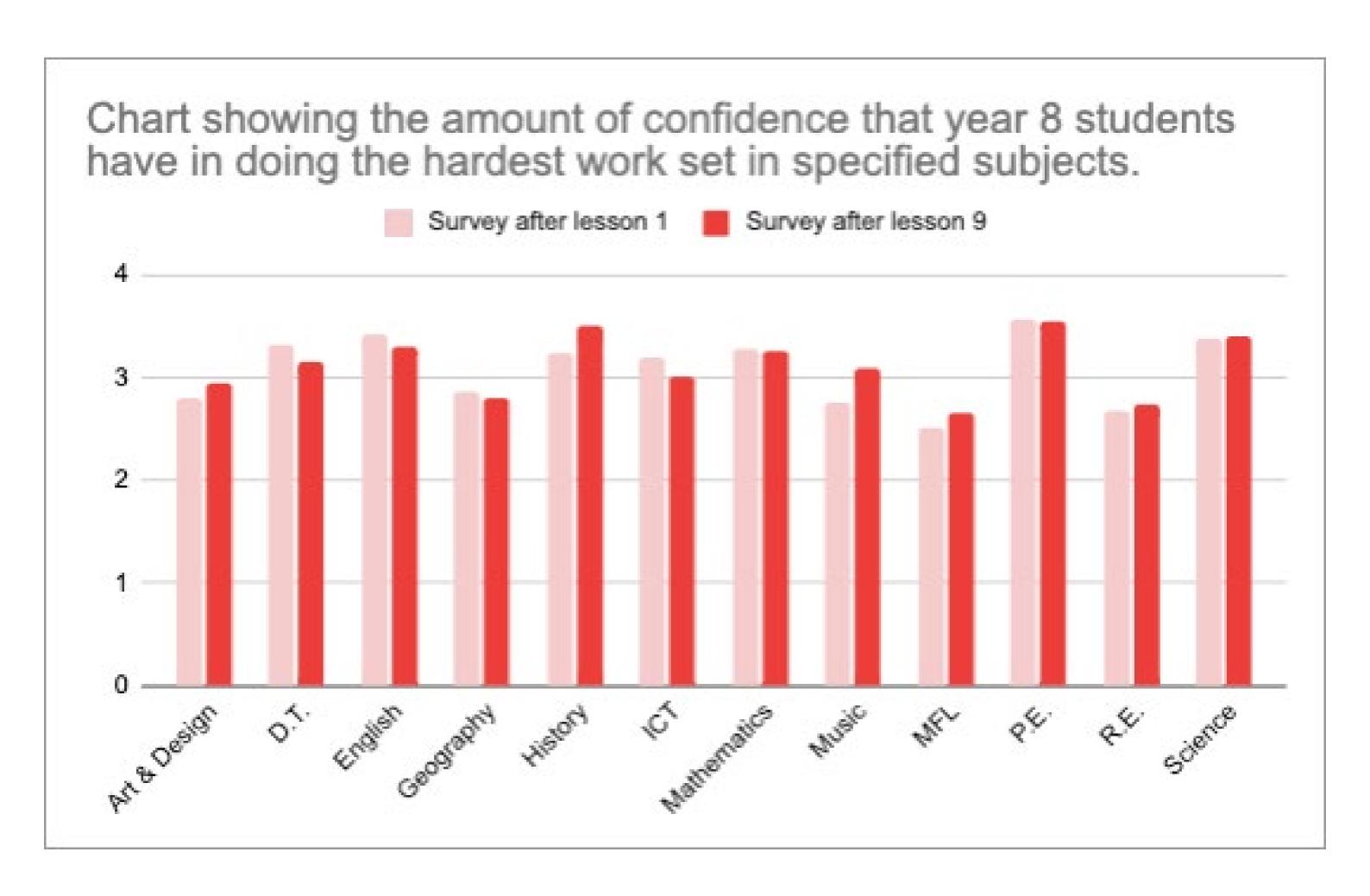


- Science, mathematics, English and ICT remained the top 4, but with a decreased lead



- However, the students identified themselves as less confident in D&T, dropping from 3.33 to 3.15, and from joint 4^{nd} place to 6^{th} place

Confidence sur	vey Lesson 1	Confidence survey Lesson 9						
1) P.E.	3.57	1) P.E.	3.55					
2) English	3.43	2) History	3.5					
3) Science	3.38	3) Science	3.4					
4) DT	3.33	4) English	3.3					
5) Mathematics	3.29	5) Mathematics	3.25					
6) History	3.24	6) DT	3.15					
7) ICT	3.19	7) Music	3.1					
8) Geography	2.86	8) ICT	3					
9) Art and Desig	2.81	9) Art and Design	2.95					
10) Music	2.76	10) Geography	2.8					
11) R.E.	2.67	11) R.E.	2.75					
12) MFL	2.52	12) MFL	2.65					



HOWEVER...

t				THESE CORE SUB	JECTS? (First s										ONLY FINAL LE													
	Art & Design	D.T.	English	Geography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Intelligence survey Lesson 1		HOW INTELLIG	ENT DO YOU NE	ED TO BE TO	DO WELL IN THESE	CORE SUBJ	ECTS? (First surv	vey)							
}	3	3	4	4	4	5	5	1	1	3	4	5	1,2) Science / Mathematics	4.1	Student	Art & Design	D.T.	English	Geography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Intelligence survey Less
	3	3	4	4	3	5	5	4	1	2	2	5	3) ICT	3.8	Student 4	3	3	4	4	3	5	5	4	1	2	2	5	1) Mathematics
	3	2	4	3	4	4	4	4	4	2	3	4	4) Art and Design	3.7	Student 5	3	2	4	3	4	4	4	4	4	2	3	4	2,3) ICT / Science
	4	4	4	3	2	3	2	4	2	3	2	3	5) History	3.6	Student 9	4	4	4	3	2	3	2	4	2	3	2	3	4) Music
)	5	4	3	4	4	4	4	5	5	3	3	5	6,7) English / Music	3.4	Student 12	4	2	3	2	3	5	5	4	5	1	3	4	5) English
	4	2	3	2	3	5	5	4	5	1	3	4	8,9) DT / Geography	3.2	Student 15	3	2	4	3	4	4	3	4	2	5	1	3	6) Art and Design
	3	2	4	3	4	4	3	4	2	5	1	3	10) P.E.	3.1	Student 18	3	4	2	3	4	5	5	4	4	5	3	5	7) History
	5	4	2	3	5	1	3	2	1	5	2	3	11) MFL	2.8	Student 19	4	4	4	3	3	2	5	2	3	2	2	4	8.9.10) DT / Geography /
	3	4	2	3	4	5	5	4	4	5	3	5	12) R.E.	2.5	Total	24	21	25	21	23	28	29	26	21	20	16	28	11) P.E.
	4	4	4	3	3	2	5	2	3	2	2	4	12,1112		Average	3.43	3.00	3.57	3.00	3.29	4.00	4.14	3.71	3.00	2.86	2.29	4.00	12) R.E.
Total	37	32	34	32	36	38	41	34	28	31	25	41																
rage	3.70	3.20	3.40	3.20	3.60	3.80	4.10	3.40	2.80	3.10	2.50	4.10																
															HOW CONFIDEN	T ARE YOU THA	T YOU CAN DO	THE HARDEST WO	RK THAT IS	ASSIGNED IN YO	OUR SUBJECTS	S? (First survey)						
															Student	Art & Design	D.T.		eography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Confidence survey Lesso
ans.	NT ARE VOUT	THAT VOIL OF	N DO THE UAD	EST WORK THAT	IS ASSIGNED IN	VOLID CLID IT	CTS? (First survey	A							Student 4	2	5	3	1	5	3	2	5	4	3	4	2	1) P.E.
IDE	Art & Design					ICT ICT	Mathematics		MFL	P.E.	R.E.	Science	Confidence community		Student 5	4	3	2	4	3	2	1	5	3	4	4	1	2,3,4) DT / ICT / Music
_	Art & Design		_			_	Matromatico	muoio	MFL 2	_			Confidence survey Lesson 1		Student 9	4	4	3	2	4	4	1	3	2	4	2	2	5) History
	3	4	5	5	5	5	5	2		5	4	5	1) P.E.	4.2	Student 12	4	2	3	2	3	5	5	4	5	1	3	4	6) Art and Design
	4	5	3	1 4	5	3	1	5	4	3	4	1	2,3) DT / History 4) ICT	3.9	Student 15	3	4	4	2	3	4	3	5	1	5	2	3	7) English
_		3	2			2	<u> </u>	5	3		-				Student 18	5	5	4	3	4	5	5	3	2	5	2	5	8) Maths
_	4	4	3	2	4	4	1	3	2	4	2	2	5,6,7) Science / Maths / Englis	3.4	Student 19	2	3	4	4	3	3	5	1	3	5	3	4	9) Science
	1	4	3	5	5	3	4	2	3	5	3	5	8) Music	3.3	Total	24	26	23	18	25	26	22	26	20	27	20	21	10,11) R.E. / MFL
	4	2	3	2	3	5	5	4	5	1	3	4	9) Art and Design	3.2	Average	3.43	3.71	3.29	2.57	3.57	3.71	3.14	3.71	2.86	3.86	2.86	3.00	12) Geography
	3	4	4		3	4	3	5	1	5	2	3	10) Geography	3.1														
	4	5	3	3	4	3	3	3	1	5	2	3	8) R.E.	2.9														
	5	5	4	3	4	5	5	3	2	5	2	5	9) MFL	2.6														
	2	3	4	31	3 39	3 37	5	1	3	5	3	4			HOW INTELLIGE	ENT DO YOU NE	ED TO BE TO D	O WELL IN THESE	ORE SUBJE	ECTES (second or								
otal age		39	34	31							20																	
aye		3 90	3.40	3.10			34	33	26	42	29	3.40			Student	Art & Design	D.T.		eography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Intelligence survey Less
		3.90	3.40	3.10	3.90	3.70	34 3.40	33	26 2.60	42 4.20					Student 4							Mathematics 2	Music 5	MFL 3	P.E.	R.E. 5	Science 4	Intelligence survey Less 1,2) Science / ICT
		3.90	3.40	3.10											Student 4 Student 5		D.T.	English 0	eography	History	ICT		Music 5 4					
		3.90	3.40	3.10											Student 4 Student 5 Student 9	Art & Design 5	D.T. 4	English 0	1 2 2	History 5	ICT 3	2	5	3	4	5	4	1,2) Science / ICT 3) English 4) Mathematics
LIG					3.90	3.70									Student 4 Student 5 Student 5 Student 9 Student 12	5 4 4 3	D.T. 4 3 4 3	8 English 6 3 4 4 4 4 4 4 4	1 2 2 2	History 5 2 4 4	3 5 3 5	2 4 2 5	5 4 3 4	3 5 2 5	4 1 2 1	5 2 3 3	4 5 2 4	1,2) Science / ICT 3) English 4) Mathematics 5,6,7) DT / History / MFL
LIG	SENT DO YOU N	NEED TO BE T	TO DO WELL IN	HESE CORE SUB	3.90 JECTS? (second	3.70	3.40	3.30	2.60	4.20	2.90	3.40	Intelligence supposed assets 9		Student Student 4 Student 5 Student 9 Student 12 Student 15	Art & Design 5 4 4	D.T. 4 3 4	English 0 3 4 4	1 2 2	History 5 2 4	3 5 3	2 4 2	5 4 3	3 5 2	4 1 2	5 2 3	4 5 2	1,2) Science / ICT 3) English 4) Mathematics
LIG		NEED TO BE T	FO DO WELL IN	THESE CORE SUB	3.90 JECTS? (second	3.70	3.40 Mathematics	3.30 Music	2.60	4.20 P.E.		3.40 Science	Intelligence survey Lesson 9		Student Student 4 Student 5 Student 9 Student 12 Student 15 Student 15 Student 18	5 4 4 3	D.T. 4 3 4 3	8 English 6 3 4 4 4 4 4 4 4	1 2 2 2	History 5 2 4 4	3 5 3 5	2 4 2 5	5 4 3 4	3 5 2 5	4 1 2 1	5 2 3 3	4 5 2 4	1,2) Science / ICT 3) English 4) Mathematics 5,6,7) DT / History / MFL
LIG	EENT DO YOU N Art & Design 3	NEED TO BE 1 D.T.	FO DO WELL IN English	Geography	3.90 JECTS? (second History 5	3.70 d survey)	3.40 Mathematics 5	3.30 Music	2.60 MFL 3	4.20 P.E.	2.90 R.E.	3.40 Science	1) Science	4.1	Student 4 Student 4 Student 5 Student 9 Student 12 Student 15 Student 18 Student 19	5 4 4 3 3 3 3 3 3	D.T. 4 3 4 3 4 4 4 4	English 0 3 4 4 4 3 5 5	ieography 1 2 2 2 2 3 4	History 5 2 4 4 4 3 3 4 4 4	1CT 3 5 3 5 4 5	2 4 2 5 4 5 5	5 4 3 4 3 4 2	3 5 2 5 3 4	4 1 2 1 4 4 5	5 2 3 3 2 2 3 4	4 5 2 4 4 5 5	1,2) Science / ICT 3) English 4) Mathematics 5,6,7) DT / History / MFL 8,9) Art and Design / Musi 10) R.E. 11) P.E.
LIG	SENT DO YOU N Art & Design 3 5	D.T. 4	FO DO WELL IN English 4	Geography 5	3.90 JECTS? (second History 5	3.70 d survey) ICT 4 3	3.40 Mathematics 5 2	3.30 Music 3 5	2.60 MFL 3	4.20 P.E. 4	2.90	3.40 Science 5 4	1) Science 2) ICT	4	Student 4 Student 4 Student 5 Student 9 Student 12 Student 15 Student 15 Student 18 Student 19	Art & Design 5 4 4 4 3 3 3 3 3 3 25	D.T. 4 3 4 3 4 4 4 4 26	English 0 3 4 4 4 5 5 5 28	1 2 2 2 3 4 4 18	History 5 2 4 4 3 4 4 26	S S S S S S S S S S S S S S S S S S S	2 4 2 5 4 5 5 27	5 4 3 4 3 4 2 25	3 5 2 5 3 4 4 26	4 1 2 1 4 4 5 21	5 2 3 3 2 3 4 22	4 5 2 4 4 5 5 5	1,2) Science / ICT 3) English 4) Mathematics 5.6,7) DT / History / MFL 8,9) Art and Design / Musi 10) R.E.
LIG	Art & Design 3 5	D.T. 4 4 3	FO DO WELL IN English 4 3 4	Geography 5 1 2	3.90 JECTS? (second History 5 5 5 2	3.70 d survey) ICT 4 3 5	3.40 Mathematics 5 2 4	3.30 Music 3 5	2.60 MFL 3 3 5	4.20 P.E. 4 4	2.90 R.E. 3 5 2	3.40 Science 5 4 5	1) Science 2) ICT 3) Mathematics	4 3.9	Student 4 Student 4 Student 5 Student 9 Student 12 Student 15 Student 15 Student 18 Student 19	5 4 4 3 3 3 3 3 3	D.T. 4 3 4 3 4 4 4 4 26	English 0 3 4 4 4 3 5 5	ieography 1 2 2 2 2 3 4	History 5 2 4 4 4 3 3 4 4 4	1CT 3 5 3 5 4 5	2 4 2 5 4 5 5	5 4 3 4 3 4 2	3 5 2 5 3 4	4 1 2 1 4 4 5	5 2 3 3 2 2 3 4	4 5 2 4 4 5 5	1,2) Science / ICT 3) English 4) Mathematics 5,6,7) DT / History / MFL 8,9) Art and Design / Musi 10) R.E. 11) P.E.
	Art & Design 3 5 4	NEED TO BE 1 D.T. 4 4 3 4	FO DO WELL IN English 4 3 4	Geography 5 1 2	JECTS? (second History 5 5 2	3.70 d survey) ICT 4 3 5 3	3.40 Mathematics 5 2 4 2	3.30 Music 3 5 4	2.60 MFL 3 3 5	4.20 P.E. 4 4 1 2	2.90 R.E. 3 5 2 3	3.40 Science 5 4 5 2	1) Science 2) ICT 3) Mathematics 4,5,6) History / English / DT	4 3.9 3.8	Student 4 Student 4 Student 5 Student 9 Student 12 Student 15 Student 15 Student 18 Student 19	Art & Design 5 4 4 4 3 3 3 3 3 3 25	D.T. 4 3 4 3 4 4 4 4 26	English 0 3 4 4 4 5 5 5 28	1 2 2 2 3 4 4 18	History 5 2 4 4 3 4 4 26	S S S S S S S S S S S S S S S S S S S	2 4 2 5 4 5 5 27	5 4 3 4 3 4 2 25	3 5 2 5 3 4 4 26	4 1 2 1 4 4 5 21	5 2 3 3 2 3 4 22	4 5 2 4 4 5 5 5	1,2) Science / ICT 3) English 4) Mathematics 5,6,7) DT / History / MFL 8,9) Art and Design / Musi 10) R.E. 11) P.E.
	Art & Design 3 5	D.T. 4 4 3 4 4	FO DO WELL IN English 4 3 4 4	Geography 5 1 2 2 4	3.90 JECTS? (second History 5 5 2 4 4	3.70 3.70 d survey) ICT 4 3 5 3 4	3.40 Mathematics 5 2 4 2 4	3.30 Music 3 5 4 3	2.60 MFL 3 5 5 2 4	4.20 P.E. 4 4 1 2	2.90 R.E. 3 5 2 3 4	3.40 Science 5 4 5 2 4	1) Science 2) ICT 3) Mathematics 4,5,6) History / English / DT 7) Art and Design	4 3.9 3.8 3.6	Student 4 Student 4 Student 5 Student 9 Student 12 Student 15 Student 15 Student 18 Student 19	Art & Design 5 4 4 4 3 3 3 3 3 3 25	D.T. 4 3 4 3 4 4 4 4 26	English 0 3 4 4 4 5 5 5 28	1 2 2 2 3 4 4 18	History 5 2 4 4 3 4 4 26	S S S S S S S S S S S S S S S S S S S	2 4 2 5 4 5 5 27	5 4 3 4 3 4 2 25	3 5 2 5 3 4 4 26	4 1 2 1 4 4 5 21	5 2 3 3 2 3 4 22	4 5 2 4 4 5 5 5	1,2) Science / ICT 3) English 4) Mathematics 5,6,7) DT / History / MFL 8,9) Art and Design / Musi 10) R.E. 11) P.E.
	Art & Design 3 5 4 4 3	D.T. 4 4 3 4 4 3	FO DO WELL IN English 4 3 4 4 4	Geography 5	3.90 JECTS? (second History 5 5 2 4 4 4	3.70 1 survey) ICT 4 3 5 3 4 5	3.40 Mathematics 5 2 4 2 4 5	3.30 Music 3 5 4 3 4	2.60 MFL 3 5 2 4 5	4.20 P.E. 4 4 1 2 4 1	2.90 R.E. 3 5 2 3 4 3	Science 5 4 5 2 4 4 4	1) Science 2) ICT 3) Mathematics 4.5.6) History / English / DT 7) Art and Design 8,9) Music / MFL	4 3.9 3.8 3.6 3.4	Student 4 Student 4 Student 5 Student 9 Student 12 Student 15 Student 15 Student 18 Average	Art & Design 5 4 4 4 3 3 3 3 3 25 3.57	D.T. 4 3 4 3 4 4 4 4 26 3.71	English 0 3 4 4 4 5 5 5 28	1 2 2 2 2 3 4 4 18 2.57	History 5 2 4 4 3 4 3 4 3 7 7 7 7 7 7 7 7 7 7 7 7 7	ST S S S S S S S S S S S S S S S S S S	2 4 2 5 4 5 5 5 5 27 3.86	5 4 3 4 3 4 2 25 3.57	3 5 2 5 3 4 4 26	4 1 2 1 4 4 5 21	5 2 3 3 2 3 4 22	4 5 2 4 4 5 5 5	1,2) Science / ICT 3) English 4) Mathematics 5,6,7) DT / History / MFL 8,9) Art and Design / Musi 10) R.E. 11) P.E.
	Art & Design 3 5 4 4 4 3 3	D.T. 4 4 3 4 4 3 4 4	FO DO WELL IN ' English 4 3 4 4 4 4 3	Geography	3.90 ECTS? (second History 5 5 4 4 4 3	3.70 d survey) ICT 4 3 5 3 4 5 4	3.40 Mathematics 5 2 4 5 4 4 5	3.30 Music 3 5 4 4 3	2.60 MFL 3 5 2 4 5 3	4.20 P.E. 4 4 1 2 4 1 4	2.90 R.E. 3 5 2 3 4 3 2	Science 5 4 5 2 4 4 4 4 4	Science ICT Mathematics 4,5,6) History / English / DT Art and Design 8,9) Music / MFL 10) P.E.	4 3.9 3.8 3.6 3.4 3.3	Student 4 Student 4 Student 5 Student 5 Student 9 Student 12 Student 15 Student 18 Student 19 Total Average	Art & Design 5 4 4 4 3 3 3 3 3 25 3.57	D.T. 4 3 4 3 4 4 4 4 26 3.71	English C 3 4 4 4 3 5 5 28 4.00	1 2 2 2 2 3 4 4 4 18 2.57	History 5 2 4 4 3 4 3 4 3 7 7 7 7 7 7 7 7 7 7 7 7 7	ST S S S S S S S S S S S S S S S S S S	2 4 2 5 4 5 5 5 5 27 3.86	5 4 3 4 3 4 2 25 3.57	3 5 2 5 3 4 4 26	4 1 2 1 4 4 4 5 21 3.00	5 2 3 3 2 3 4 22	4 5 2 4 4 5 5 5 5 29 4.14	1,2) Science / ICT 3) English 4) Mathematics 5,6,7) DT / History / MFL 8,9) Art and Design / Musi 10) R.E. 11) P.E. 12) Geography
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- I also compared the results from those had entered the leaderboard at least once, and for those on the final leaderboard.

SURVEY COMPARISONS – FINAL LEADERBOARD 7

- From the pre-intervention survey to the post-intervention survey the students have identified DT as requiring more intelligence, rising from 3 to 3.71, and from joint 7th place to joint 4th – on a parr with History and MFL. It has remained on parr with MFL, joined now by history, and has overtaken Geography, Music and History.
- The students identified themselves as more confident in the subject, rising from 3 to 4. Interestingly, the top subjects have rearranged, with P.E. dropping from 1st place to joint 3rd, History rising from 3rd to 1st, and DT and Music remaining in joint 2nd, joined now by ART instead of ICT.

ONLY FINAL LEADERS	BOARD													
HOW INTELLIGENT DO	YOU NEED TO	BE TO DO WE	LL IN THESE CO	RE SUBJECTS?	(First survey)									
Student	Art & Design	D.T.	English	Geography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Intelligence survey Lesson 1	
Eilidh McIntyre	3	3	4	4	3	5	5	4	1	2	2	5	1) Mathematics	4.1
Eva Potamitis	3	2	4	3	4	4	4	4	4	2	3	4	2,3) ICT / Science	
Freya Bailey	4	4	4	3	2	3	2	4	2	3	2	3	4) Music	3.7
Isla Seal	4	2	3	2	3	5	5	4	5	1	3	4	5) English	3.57
Mailee Webb	3	2	4	3	4	4	3	4	2	5	1	3	6) Art and Design	3.43
Nathaniel James	3	4	2	3	4	5	5	4	4	5	3	5	7) History	3.29
Oliver Hausden	4	4	4	3	3	2	5	2	3	2	2	4	8,9,10) DT / Geography / MFL	:
Total	24	21	25	21	23	28	29	26	21	20	16	28	11) P.E.	2.86
Average	3.43	3.00	3.57	3.00	3.29	4.00	4.14	3.71	3.00	2.86	2.29	4.00	12) R.E.	2.29
HOW CONFIDENT ARE	YOU THAT YOU	J CAN DO THE	HARDEST WOR	K THAT IS ASSI	GNED IN YOUR	SUBJECTS? (F	irst survey)							
Student	Art & Design	D.T.	English	Geography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Confidence survey Lesson 1	
Eilidh McIntyre	2	5	3	1	5	3	2	5	4	3	4	2	1) P.E.	3.86
Eva Potamitis	4	3	2	4	3	2	1	5	3	4	4	1	2,3,4) DT / ICT / Music	3.7
Freya Bailey	4	4	3	2	4	4	1	3	2	4	2	2	5) History	3.57
Isla Seal	4	2	3	2	3	5	5	4	5	1	3	4	6) Art and Design	3.43
Mailee Webb	3	4	4	2	3	4	3	5	1	5	2	3	7) English	3.29
Nathaniel James	5	5	4	3	4	5	5	3	2	5	2	5	8) Maths	3.14
Oliver Hausden	2	3	4	4	3	3	5	1	3	5	3	4	9) Science	:
Total	24	26	23	18	25	26	22	26	20	27	20	21	10,11) R.E. / MFL	2.8
	3.43	3.71	3.29	2.57	3.57	3.71	3.14	3.71	2.86	3.86	2.86	3.00	12) Geography	2.5

HOW INTELLIGENT DO	YOU NEED TO	BE TO DO WEL	LL IN THESE CO	RE SUBJECTS?	(second surve)	y)								
Student	Art & Design	D.T.	English	Geography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Intelligence survey Lesson 9	
Eilidh McIntyre	5	4	3	1	5	3	2	5	3	4	5	4	1,2) Science / ICT	4.14
Eva Potamitis	4	3	4	2	2	5	4	4	5	1	2	5	3) English	4
Freya Bailey	4	4	4	2	4	3	2	3	2	2	3	2	4) Mathematics	3.86
Isla Seal	3	3	4	2	4	5	5	4	5	1	3	4	5,6,7) DT / History / MFL	3.71
Mailee Webb	3	4	3	3	3	4	4	3	3	4	2	4	8,9) Art and Design / Music	3.57
Nathaniel James	3	4	5	4	4	5	5	4	4	4	3	5	10) R.E.	3.14
Oliver Hausden	3	4	5	4	4	4	5	2	4	5	4	5	11) P.E.	3
Total	25	26	28	18	26	29	27	25	26	21	22	29	12) Geography	2.57
Average	3.57	3.71	4.00	2.57	3.71	4.14	3.86	3.57	3.71	3.00	3.14	4.14		
HOW CONFIDENT ARE	VOLUTHAT VO	II CAN DO THE	HARDEST WOR	N THAT IS ASSI	GNED IN VOLID	SUBJECTS?	cond survey)							
Student	Art & Design	D.T.	English	Geography	History	ICT	Mathematics	Music	MFL	P.E.	R.E.	Science	Confidence survey Lesson 9	
Eilidh McIntyre	5	3	1	1	5	4	3	5	1	5	5	2	1) History	4.14
Eva Potamitis	4	4	3	3	4	1	1	5	2	2	4	2	2,3,4) Art / DT / Music	4
Freya Bailey	4	4	4	2	4	5	2	3	2	3	2	2	5,6) P.E. / ICT	3.71
Isla Seal	5	4	3	1	5	4	3	5	4	1	2	5	7) Science	3.43
Mailee Webb	3	4	3	2	3	3	4	4	2	5	3	3	8,9,10) English / Maths / R.E.	3.29
Nathaniel James	3	4	4	3	4	5	5	3	2	5	3	5	11,12) MFL / Geography	2.43
Oliver Hausden	4	5	5	5	4	4	5	3	4	5	4	5		
Total	28	28	23	17	29	26	23	28	17	26	23	24		
Average	4.00	4.00	3.29	2.43	4.14	3.71	3.29	4.00	2.43	3.71	3.29	3.43		

SURVEY COMPARISONS: INTELLIGENCE NEEDED FOR D&T

- Whole class average:

Rise from **3.1** to **3.33**

- All leaderboard students:

Rise from **3.2** to **3.8**



- Only **final** leaderboard students :

Rise from **3** to **3.71**



- SEND students in the class:

Rise from 3 to 3.8



SURVEY COMPARISONS: CONFIDENCE IN THEIR D&T ABILITY



Rise from **3.33** to **3.15**

1

- All leaderboard students:

Rise from **3.9** to **3.8**



- Only **final** leaderboard students :

Rise from **3.71** to **4**



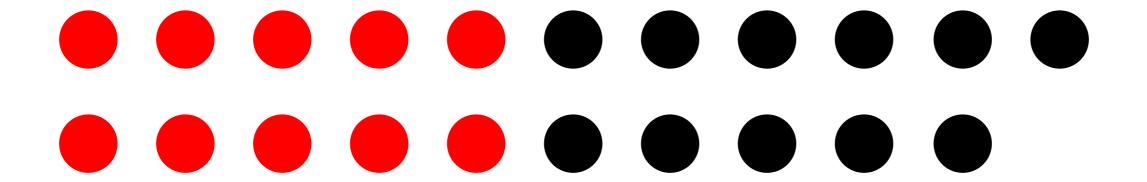
- SEND students in the class:

Rise from **3.8** to **4**

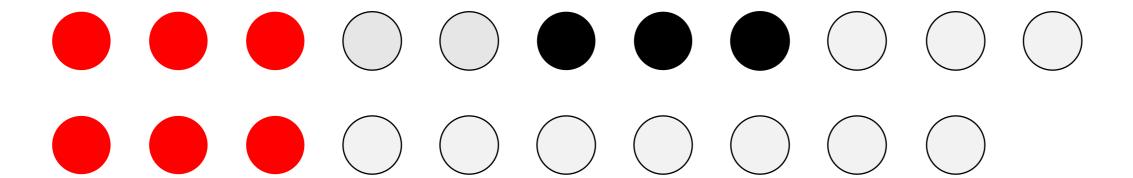


SEND

- There are 10 students in the class of 21 who have been flagged for an SEND profile.



- 6 of the 9 students on the leaderboard have been flagged for SEND!
- That's 2/3 of the leaderboard with an SEND profile.



SEND

- On average, SEND students' perceptions of D&T intelligence shifted from 3 to 3.8.
- Their confidence rose from 3.8 to 4 in D&T.

Furthermore...

- Their confidence across <u>all</u> subjects rose from **3.45** to **3.67**, on average.
- The largest rises were in art, +0.8, history and R.E., +0.6.

FINDINGS



- Self-efficacy in D&T, on average, decreased.

The more the students were on the leaderboard, the higher their respect for the subject and their confidence grew.

INTERVIEWS – "DID YOU THINK YOU'D BE ON THE

Student 4

"No, I didn't expect to be on the EAD EBBOARD?" thought that I wasn't intelligent, so the fact that I got the answers right, I was like, what – that must be wrong."

"I definitely thought the first time was just 'first time lucky.' If I'm completely honest, I was just like 'maybe it was just like all the guesses I got correct.'

"The fact that I'm still on the leader board, it really surprises me, actually."

Student 5

"I didn't think I would be, no."

Student 18

"I'm shocked! [...] I hoped I'd be, but I didn't think I would be."

INTERVIEWS - "WHY?"

Student 9

"I thought I wasn't intelligent because I'm not good at academic stuff. [...] Everything's so academic based now. Yeah, like GCSEs, they're just a memory test at this point. And it's so hard because I don't have a good memory at all. [...] Yeah, so the fact that, like, my GCSE's are a memory test that freaks me out."

Student 12

"It's not that I thought I wasn't intelligent, I just thought there were people in that room who were more intelligent than me, so I thought they would be higher up – than me. [...] Mainly because I know them in a lot of other subjects. Like there's loads of them in my maths class. So I thought that a lot of them would get higher because I'm not great at maths."

Student 4

"But when it's visual learning, even just diagrams, it helps so much, yeah. And I feel like I'm so much smarter than I am in school, but I feel like I'm not intelligent when it's just memory and reciting things."

INTERVIEWS – "HOW DO YOU FEEL?"

Student 9

"We're very proud."

Student 12

"Oh, my God, I can actually do this stuff."

Student 18

"Shocked!"

Student 19

"Probably shocked as well, maybe a little bit. Excited to try and beat [Student 18]."

INTERVIEWS — SELF-IDENTIFYING SEND

Student 4

"I'm quite good at spotting patterns, so I found it pretty easy at the start. Yeah, because I think I might have, like ADHD or autism or something along those lines. So I kind of think like I can see patterns really easily. And I'll say it to other people, like, 'hey do you see that?', and they'll be like, no, what even is that?

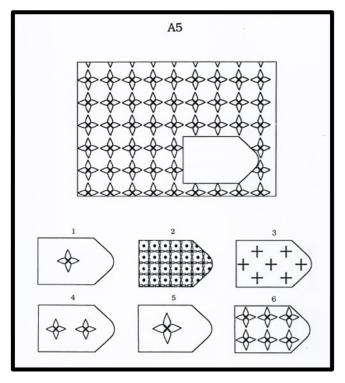
Student 18

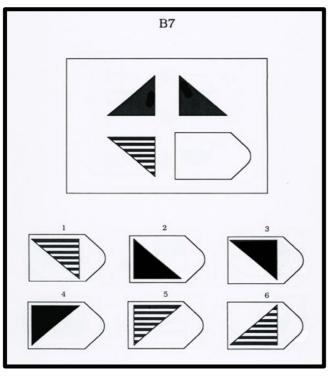
"Like also, I can't read a book and take in the knowledge - I can't read it with my own eyes. Yeah, it's not that I'm dyslexic or anything. It's just like I will not remember it. If someone's, like, reading it to me or there's, like, a video of it I'll remember it more because it's visual and I can see what's being written down. I use highlighter for every single piece of my work because colour coding helps me. It's all visual for me."

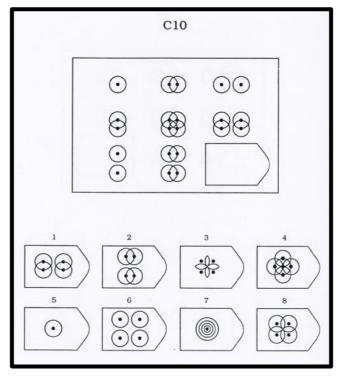
Student 12

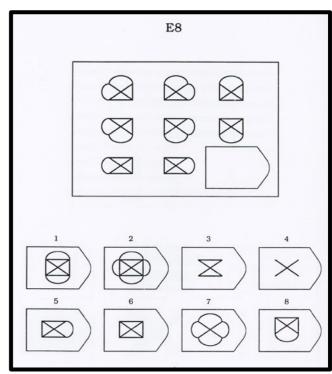
Yeah. Also, when you said about like visual things, I find that when we're in class if someone was to put on a video, then I would remember a lot more from that video than when they're just constantly talking. Yeah. Even if there were, like, pictures on the board, I would still tune in more to a video because everyone would actually be quiet and like, watch. And it's easier to, like kind of understand when they're actually demonstrating it. Instead of just being like this, 'this is what would happen', but when they actually show it when it happens in a video, it makes a lot more sense.









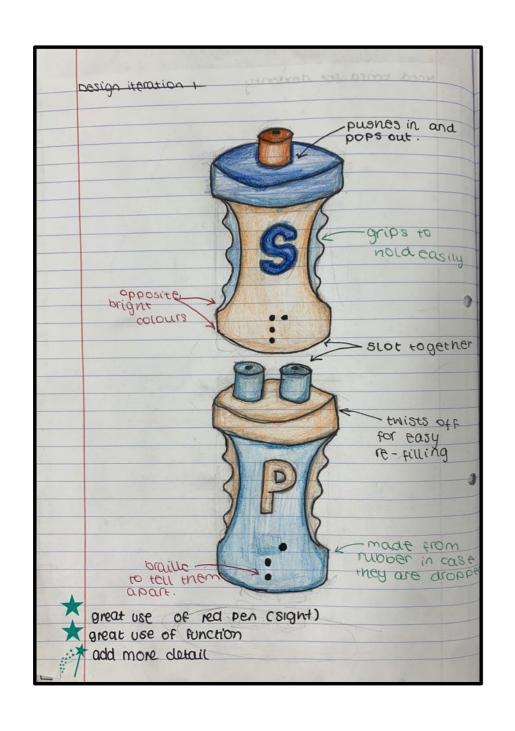


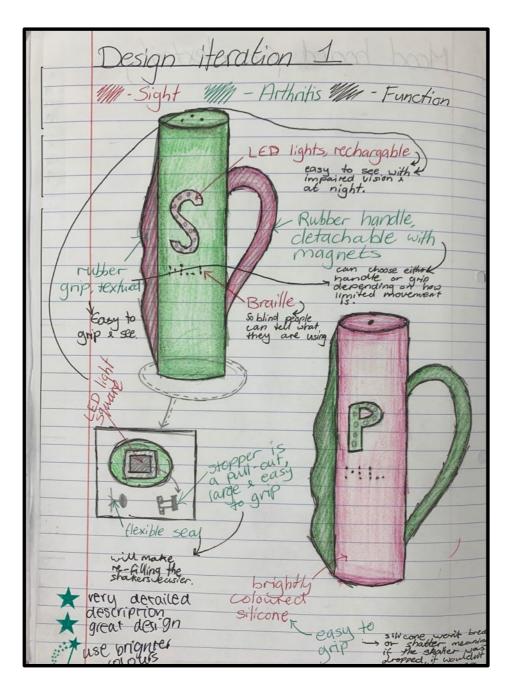
DID I BOOST THE CONFIDENCE OF THE CORRECT STUDENTS?

WAS "EDUCTIVE" INTELLIGENCE THE CORRECT THING TO TEST

AND CELEBRATE?

TRIANGULATION



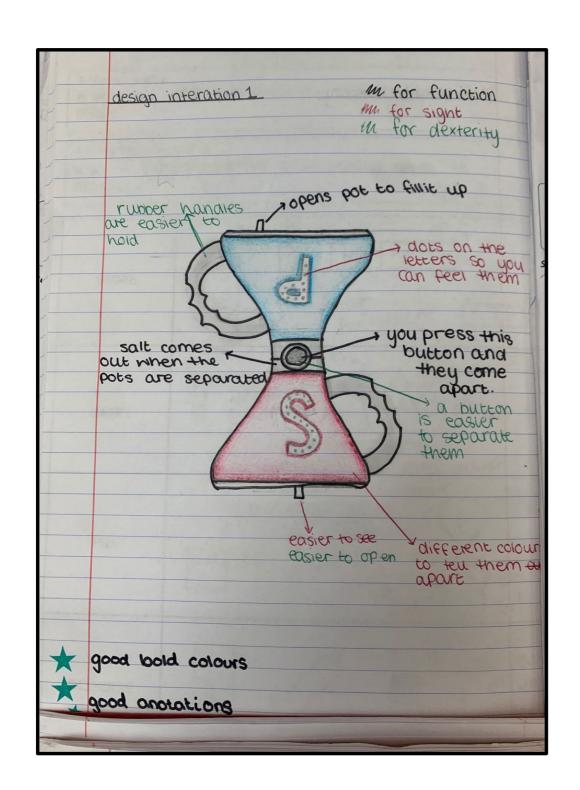


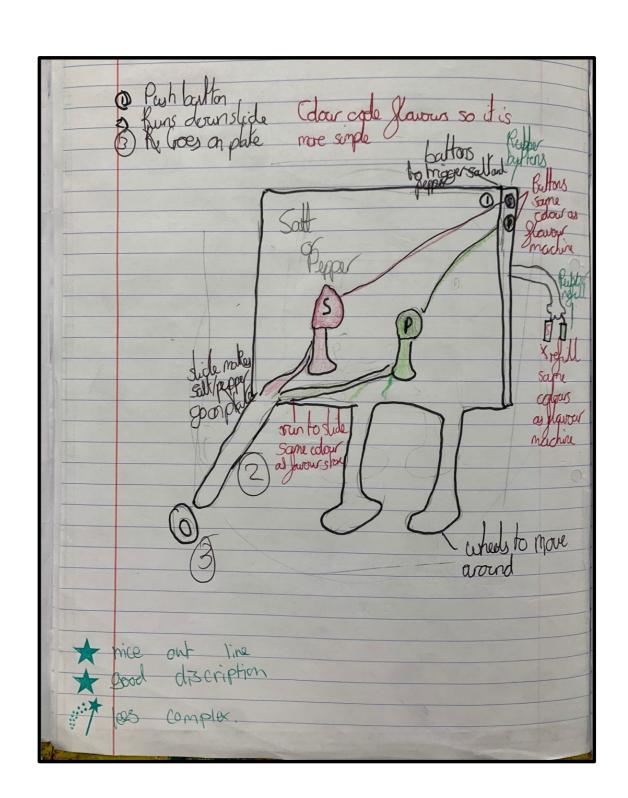


- The top three students on the leaderboard created insightful design
- Their book work was amongst the best top 4 best graded in class

TRIANGULATION

- However, some students who were also top-graded did not make the leaderboard (left). This student also had the highest nonverbal cognitive ability score from their CATs tests.
- Some students with low-graded work did enter the final leaderboard (right). This student also had a low nonverbal cognitive ability score from their CATs tests.





ETHICS

- Students 16, 20 and 21 all had very good book work, but did not once enter the leaderboard.
- Surveys indicate that student 16's confidence did decrease from "somewhat confident" to "slightly confident" in D&T.
- This is an important ethical concern which goes against the aim of my project.
- Focussing on "Educative" intelligence was too reductive for the leaderboard.

ETHICS

- However, I would describe students 4, 5, 9, 12 and 15, the top five students on the RPM leaderboard, as in the top six attaining students in this DT class.

NONVERBAL CAT SCORES VERSUS LEADERBOARD RESULTS

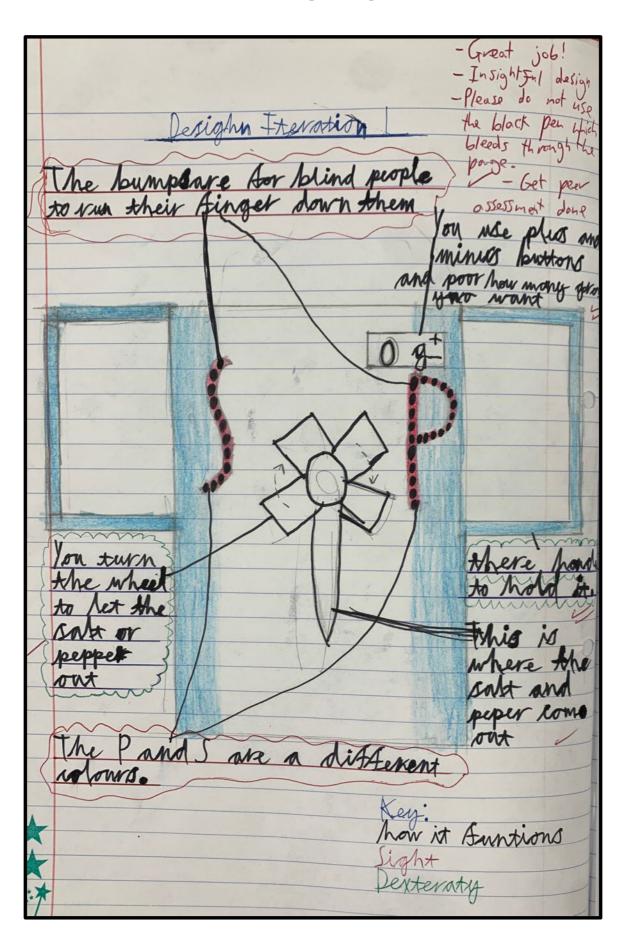
Student	Non-verbal SAS - Y7 CAT scores	Times entering the leader board	Placement on final Leader board
Student 16	122	0	
Student 12	114	3	2
Student 18	114	4	4
Student 6	110	0	-
Student 5	109	7	1
Student 20	108	0	-
Student 13	107	0	-
Student 19	104	3	3
Student 11	104	0	-
Student 17	103	1	-
Student 21	103	0	-
Student 4	103	7	2
Student 10	102	2	=
Student 1	101	0	-
Student 15	98	3	4
Student 9	95	7	1
Student 3	95	2	-
Student 14	84	0	=
Student 8	77	0	=
Student 2	74	0	-
Student 7	-	0	=

TRIANGULATION

- There is not a positive correlation between the Year 7 nonverbal cognitive tests and my leaderboard tests
- The highest scoring student on the Year 7 nonverbal cognitive test never got onto the leaderboard

EAL

- Students with English as an Additional Language.



FINAL THOUGHTS...

At the heart of this paper is a belief that the English education system enacts systemic discrimination against nonverbally intelligent students by teaching and assessing non-academic subjects via academic means.

I believe that this bias against nonverbally biased people is endemic in our wider culture.

My research was too reductive, and placed too much emphasis on only "eductive" intelligence, rather than the wider gamut of design ability.

Despite the flaws and limitations of my research, the SEND results were enlightening. I believe there are sinister implications for the types of minds we are labelling as SEND or Disabled.