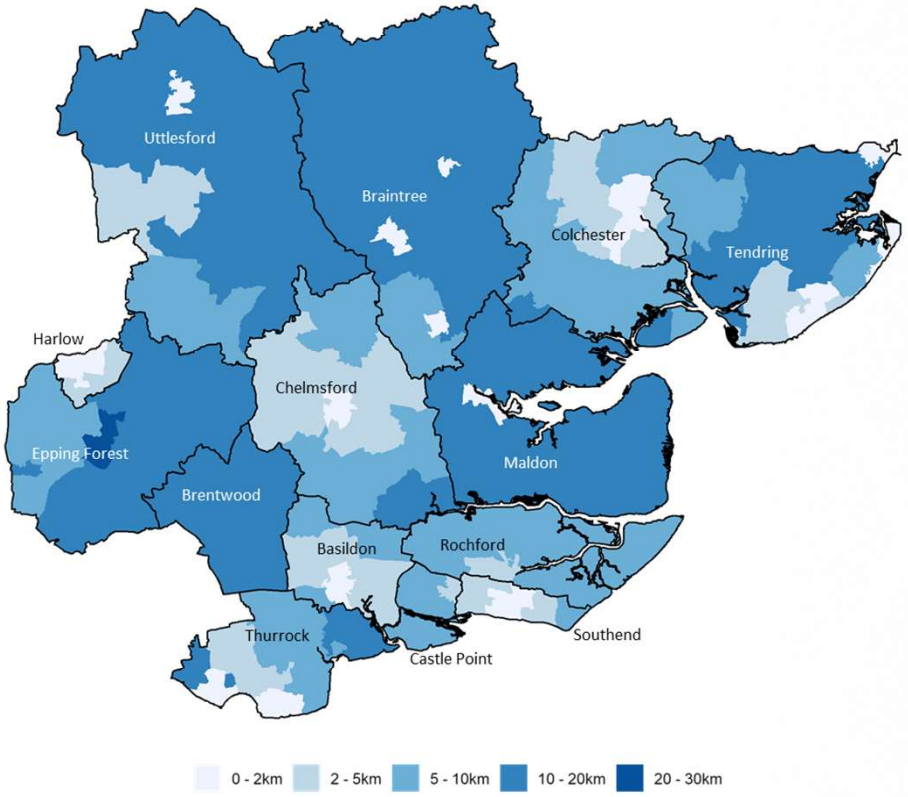
The Careers Lens: A New Vision for Education

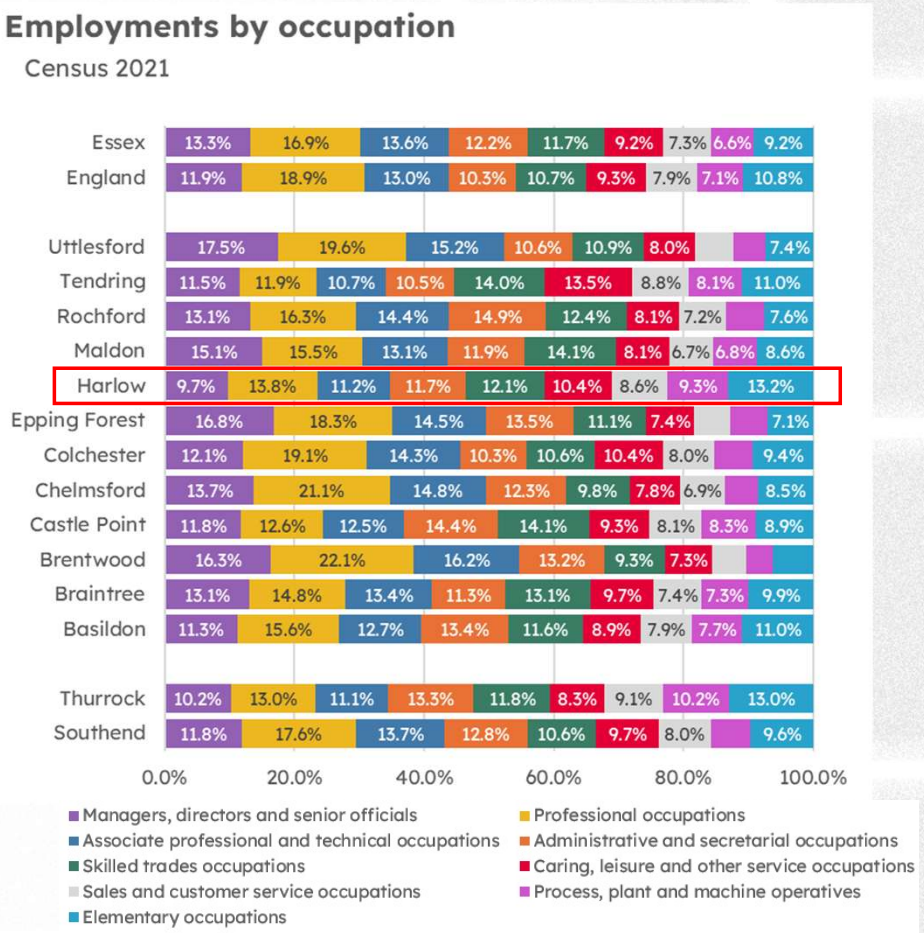
Dave Ramsey – Head of Centre, BMAT STEM Academy



University Technical Colleges®

Understand your context





Know the market

According to Indeed, the fastest growing growth areas are:

1. Information Technology
2. Home furnishings
3. Sports clothing and equipment
4. Green manufacturing and energy
5. Safety equipment and supplies
6. Telehealth services
7. Online food ordering and delivery
8. Property industry
9. Healthcare
10. Data Science
11. Cyber security and artificial intelligence

'43% of vacancies in STEM roles are hard to fill due to a shortage of applicants with the required skills – almost double the UK average of 24%.'

According to the Cambridge Network, the careers that will shrink the most in the East of England are:

Wholesale and retail (-3.3%)
Manufacturing (-2.9%)
Accommodation and food services (-2.7%)
Arts, entertainment and recreation (-1.8%).

Based on data from April 2023 published by Indeed - 11 of the fastest-growing industries to break into | Indeed.com UK
Based on data from March 2023, published by Cambridge Network - The East of England set to be one of the UK's fastest growing regions in the next few years, finds latest EY report | Cambridge Network

‘Careers guidance is most effective when it is embraced by leadership, written into institutions’ wider strategies and embedded into the practice of all staff.’

Good Career Guidance: The Next 10 Years. London: The Gatsby Charitable Foundation.

What is expected?

Careers provision on graded inspections

352. All schools providing secondary education are expected to provide effective CIEAG, in line with the statutory 'Careers guidance and access for education and training providers', to encourage pupils to make good choices and understand what they need to do to succeed in the careers to which they aspire.

353. As part of this, it is important that schools understand and meet the requirements of section 42B of the Education Act 1997 (referred to in DfE guidance as 'provider access legislation'), which came into force in January 2018.

354. In assessing a secondary school's personal development offer, inspectors will assess the quality of careers provision and how well it benefits pupils in choosing and deciding on their next steps.

- the quality of the unbiased careers advice and guidance provided to pupils
- the school's implementation of the provider access arrangements to enable a range of education and training providers to speak to pupils in Years 8 to 13
- how the school provides good-quality, meaningful opportunities for pupils to encounter the world of work
- the school's use of the Gatsby Benchmarks
- the school's published information about its careers provision (as required by the School Information Regulations) and the school's statement on its provider access arrangements (as required by section 42B of the Education Act 1997)

355. If a school is not meeting the requirements of section 42B of the Education Act 1997, inspectors will state this in the inspection report. They will consider what impact this has on the quality of careers provision and the subsequent judgement for personal development.

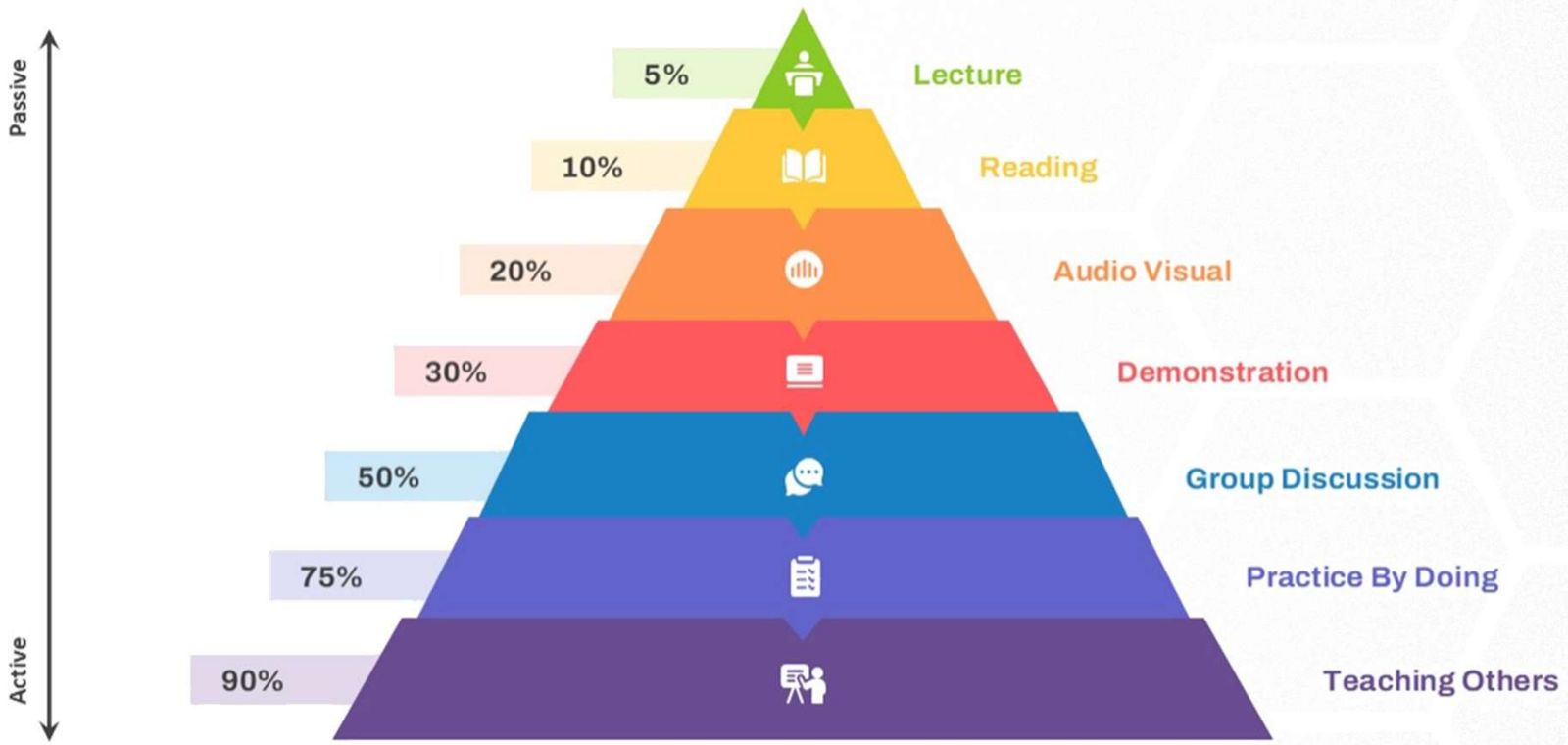
Know your students



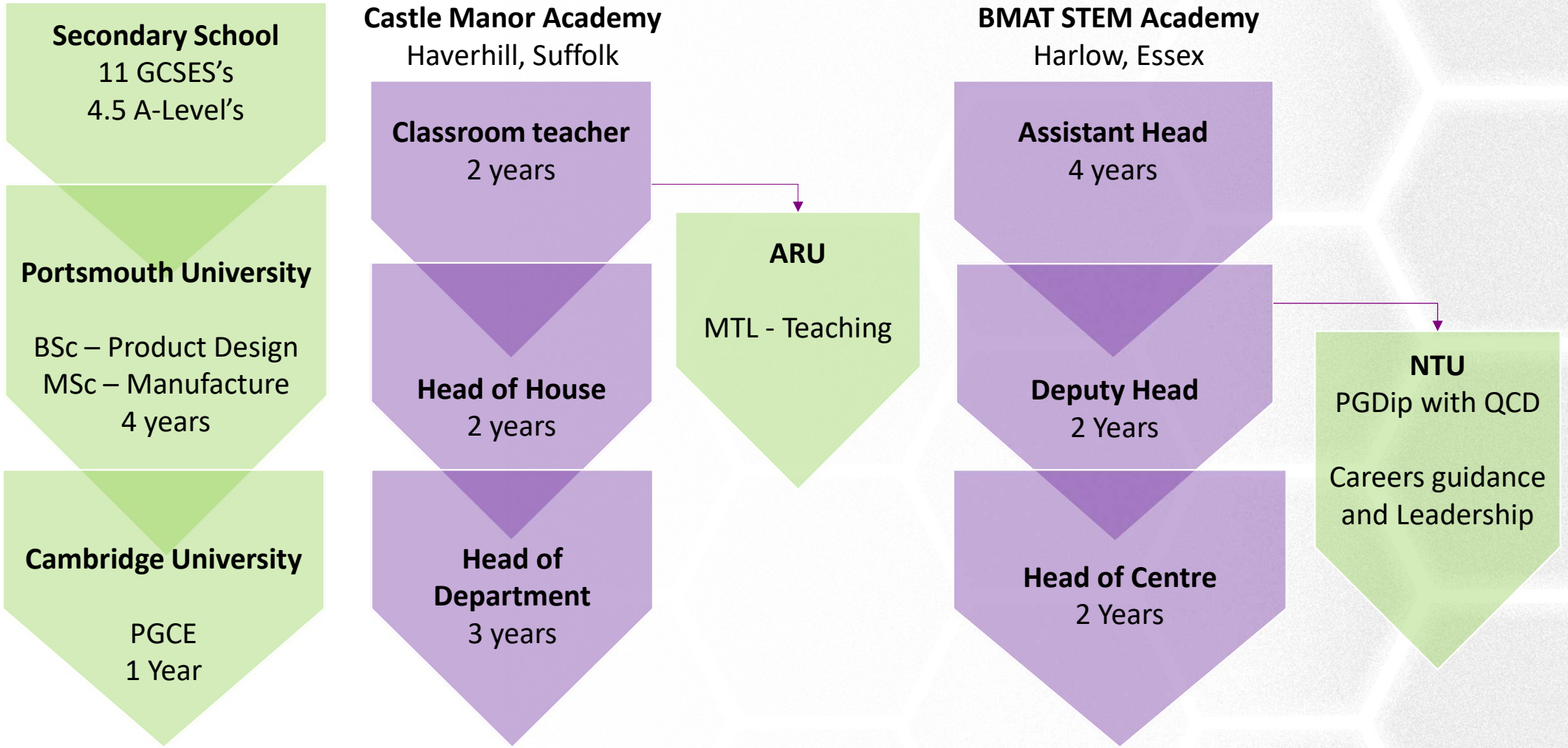
Careers in the classroom



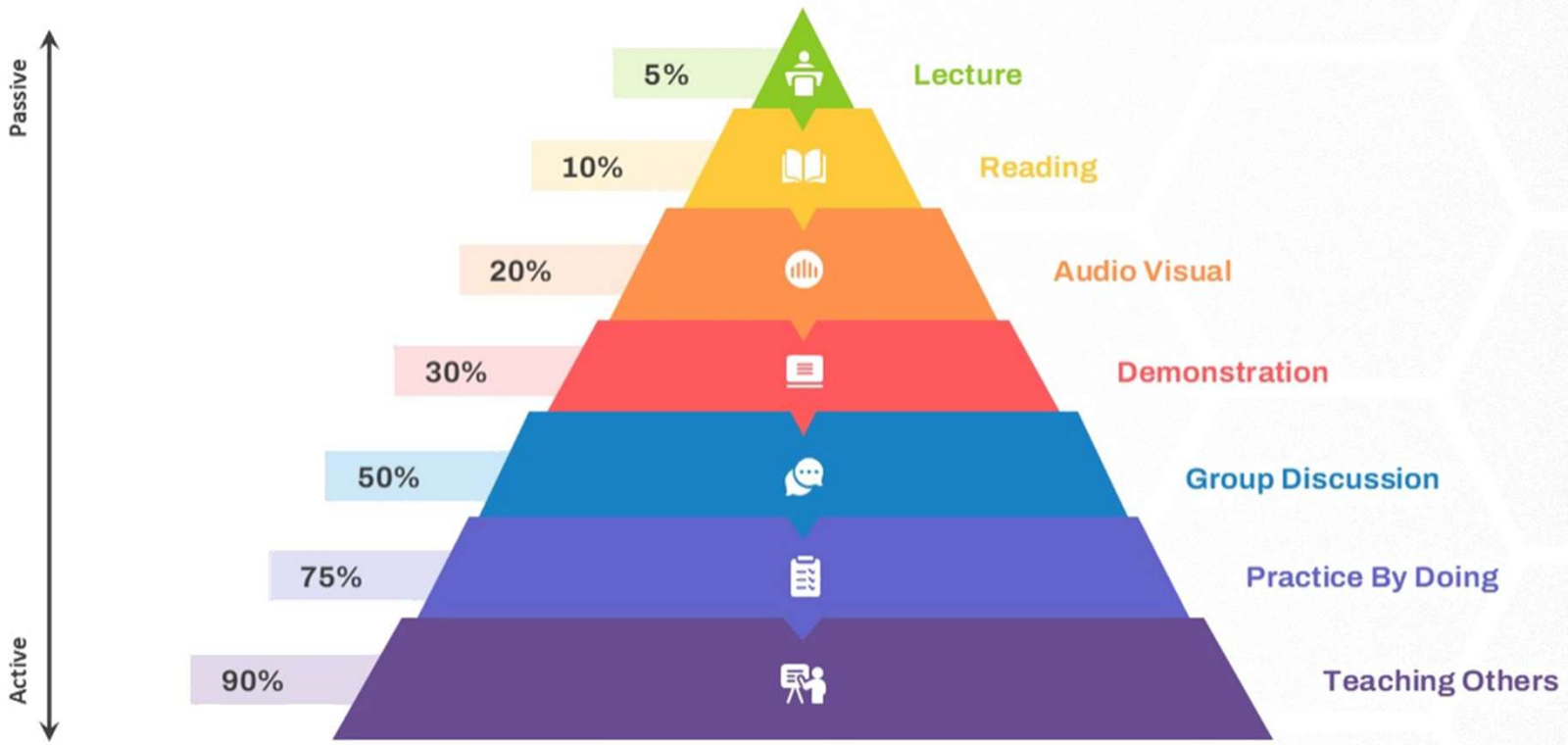
Careers in the classroom



Careers in the classroom – Career journey



Careers in the classroom



Careers in the classroom









GSK New Building project

English – Press release
Science – Pharmaceutics

DT – Architecture
Engineering – Fluid dynamics
Computer Science/Stats – Data Analysis

Commitment from industry:
3 Afternoons – 2 at STEM
1 Day visit to GSK





Commitment from industry:
2 Afternoons at STEM
1 week's work experience for 2 students

astro

Astro Lighting Design Project



Quadcopter Challenge

Commitment from industry:
1 day at STEM
1 day at Raytheon

Women in Engineering Day



Raytheon

Careers in the classroom





Commitment from industry:
1 day at Gratnells

Gratnells
ENGINEERING

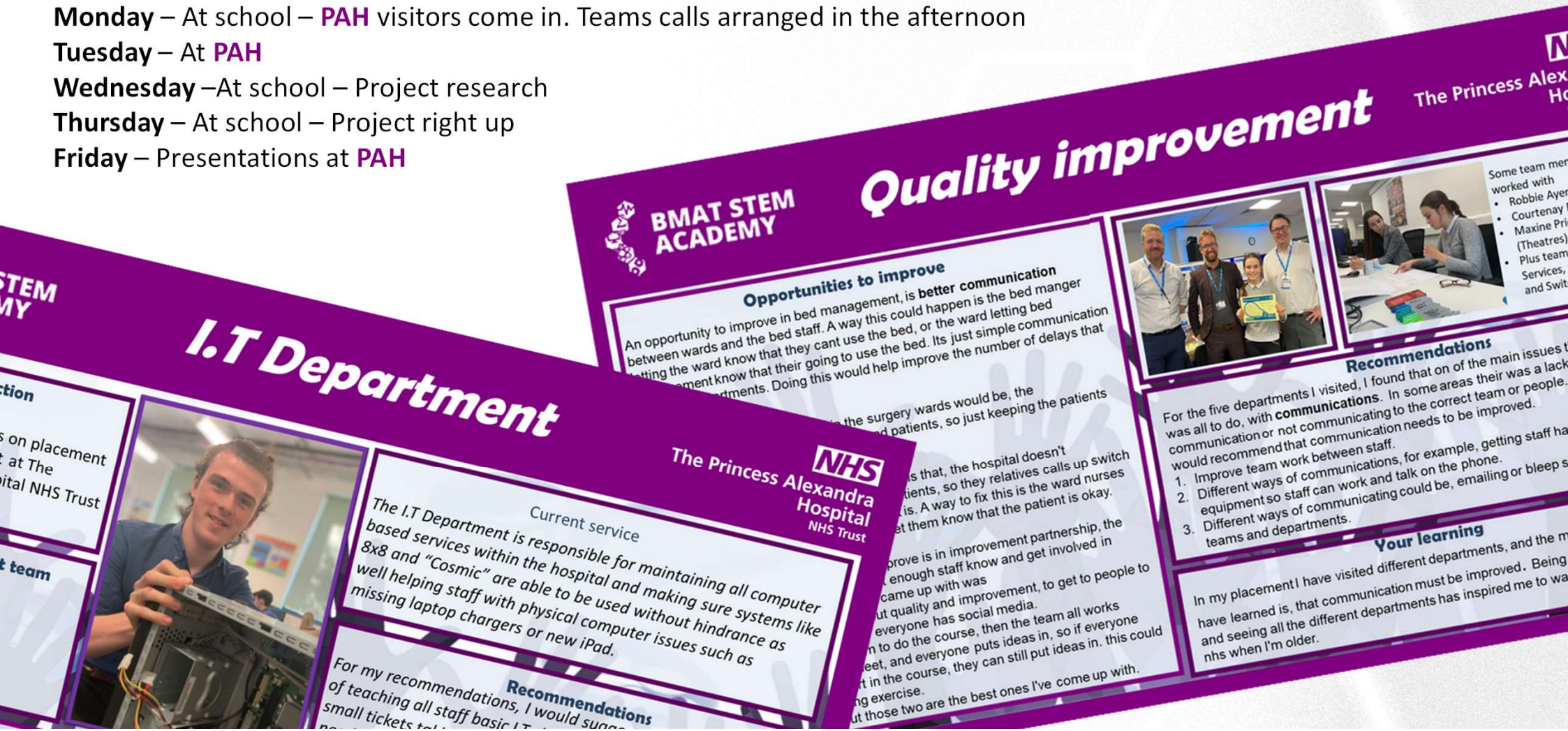
Why do you run work experience?

What is meaningful?	On site	Hybrid	In house	Virtual
Have a clear purpose, shared with the employer and the young person be underpinned by personalised learning outcomes	✓	✓	✓	
Involve extensive two-way interactions between the young person and a wide range of employees	✓	✓	✓	
Include opportunities for young people to perform a task set by the employer or to produce work relevant to that workplace	✓	✓	✓	✓
Include the employer providing feedback to the young person about their work	✓	✓	✓	✓
Be followed by opportunities for the young person to reflect on the insights, knowledge or skills gained through their experience	✓	✓	✓	✓

Experiences of workplaces – Example of an Hybrid experience of workplaces

Princess Alexandra Hospital - Harlow

Monday – At school – **PAH** visitors come in. Teams calls arranged in the afternoon
Tuesday – At **PAH**
Wednesday –At school – Project research
Thursday – At school – Project right up
Friday – Presentations at **PAH**



Experiences of workplaces – Example of an onsite experience of workplaces

LAB Design – London
Joe Allen Pro – Essex
GSK – Ware

Monday – **LAB Design** introduce the project
Tuesday – **GSK** Packaging Design Team support with workshops
Wednesday – **LAB Design**, with support from Media and Design teams work with students on advertising storyboards
Thursday – **Joe Allen Pro** come in to support students with filming
Friday – Write up and presentations to **GSK** and Governors





Medical Packaging Advertising project



learner adams bones

TELEPROMPTER APPS LTD

GSK

Experiences of workplaces – What's in it for industry?



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ESTEEM STUDIO

For Students - By Students

NHS

The Princess Alexandra Hospital

NHS Trust

Princeps
www.princeps.co.uk

COLAS
UNITED KINGDOM

LAZER
HIGH PERFORMANCE LIGHTING

scene 2

GSK

astro

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The value of work

As shown in *Table 1*, **students who work over 20 hours a week see their grades drop. On the other hand, students who work less than 10 hours a week get better grades than non-working students**.

Number of hours worked per week	Impact on grades
Non-working students	No effect (Baseline)
Less than 10 hours	Positive effect or no effect
11-15 hours	No effect
15-20 hours	Negative effect
Over 20 hours	Very negative effect

Table 1. Review of the results of 3 papers about the effects of part-time jobs on grades. Sources: [1], [2], [3].

Schools, colleges and independent training providers (ITPs) can take into account any part-time work a young person may have, if it genuinely offers them a meaningful experience.

p.36, Good Career Guidance: The Next 10 Years. London: The Gatsby Charitable Foundation.

Where do I start

Education	**Industry**

• Make links with industry - start with the parents
• Say **yes** to as much as you can
• Get SLT and Governors talking about careers
• Get students thinking about careers as early and as much as possible
• Plan for cross curricular activities
• There are opportunities to talk about careers in every lesson
	• What are the needs of your business?
	  • Could you train your own?
	• Do any of your employees have school age kids?
	• What could you offer a school?
	  • Your time?
	  • A project?
	  • Old equipment?
	  • Support with an activity?
	• Could you join a governing body?
	• Could you become a STEM Ambassador?
	• Could you support with work experience?
	• Could you support apprentices?


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