

HEAT Group Profiles

This updated thematic paper examines HEAT member data, matched with other administrative datasets, in order to examine educational outcomes for outreach participants as they progress from Key Stage 4 examination through to possible Higher Education enrolment. The series of progression points through which they travel and the administrative data pertinent to each stage on their journey is illustrated in the 'HEAT Jigsaw', provided for reference in Figure 1 at the back of this document. This thematic paper has now been updated to show university application and acceptance data (UCAS), a key part of the jigsaw.¹

The HEAT Group Model

In order to better interrogate its matched data HEAT has developed the 'HEAT Groups', a student classification system designed to help members to better understand the profiles of students with whom they are engaging. Widening Participation (WP) students are not a homogenous group and therefore, the students recorded through HEAT as recipients of outreach activities often reflect a diverse range of social and economic characteristics. Through the HEAT Group system, we classify students who have participated in outreach into one of four groups (Groups 1 to 4), with two further subgroups (Groups 2a and 2b and 4a and 4b). Classifying participants of outreach in this way has allowed us to compare outcomes for students who are similar in terms of their likelihood of progressing to Higher Education (HE) as they progress through the HEAT Jigsaw. A diagram of the construction of the HEAT groups can be found in Figure 2 at the end of this document.

Two broad factors that influence progression to HE in England have been identified through close examination of the literature: prior academic attainment and socioeconomic background or disadvantage. The relationship between these factors is demonstrated in the upper section of Figure 2. HEAT Groups 2 and 4 have been split into two sub groups to reflect the diversity in prior attainment that exists within this group which, although labelled 'High Attainment', includes everyone who achieved at least five GCSEs at A*-C including English and Maths. Students are classified as 'disadvantaged' according to a basket of indicators. Disadvantage is not easy to define but we have aligned the available proxies with Bourdieu's capitals in order to avoid positivist notions that social reality can easily be quantified. A report justifying the selection of these indicators and their alignment with one of the forms of capital is provided in the full report on the HEAT Groups which is available on request.

Key Findings from the HEAT Jigsaw analysis

Below we summarise some of the key lessons that we can learn from HEAT's longitudinal tracking project. We focus on outcomes for the two HEAT Groups which are targets for WP: Group 1 and 2a and 2b (the disadvantaged groups). Data are compared with that of their non-disadvantaged peers with similar attainment levels (Group 3 and 4a and 4b respectively). This information may provide insight into how outreach may better support these different groups of target WP students.

¹ Please note: The linking of HEAT data with UCAS data was conducted differently from HEAT's linking with HESA. For a student to match with the data UCAS available to us, all personal details (first and last name, date of birth, postcode and gender) must have matched exactly. This resulted in an average match rate of 30%, far fewer than the 58% of participants HESA were able to match from the same sample. As a result, application rates are not provided in this report as they would certainly be an underestimation of the proportion of students who actually made an application to HE. However, using the HEAT Groups we can compare like with like in the following tables, giving us insight into the way that those Widening Participation (WP) students who **do** enter the UCAS system progress through their application, acceptance and enrolment journey to Higher Education.



HEAT Group 1 (High Disadvantage, Low Attainment) Lower rates of transition to Post-16 Early, sustained intervention This group need extra support with required to help support KS4 education than nonconsidering HE as a viable option Progression to HE may take longer attainment. disadvantaged peers. than for non-disadvantaged Males in this group need extra FE College is an important Post-16 peers. Young progression rate rises attainment support at KS4 route for this group. +6 percentage points if disadvantaged males see the Of those who do enter Level 3, progression is extended to 5 years biggest attainment drop between 50% study A' levels and 45% BTEC (up to age 22 rather than the or other vocational qualifications. KS2 and KS4. standard 19 years). This group are most likely to have This group need extra attainment This group make proportionally fewer total applications to Top 30 engaged in pre-16 outreach. support at KS5 to make HE a However, they are less likely than viable option – of those who enter universities than higher attaining 3 A levels, only 21% achieve 3 their high attaining peers (Group students. 2) to engage in multiple or passes. intensive activities When they do apply they need support beyond the UCAS process through to enrolment – 17% of UF accepted applicants do not go

HESA track data shows lower rates of HE progression when compared with nondisadvantaged peers with similarly low attainment (Group 3): 19% vs. 24%.

on to actually enrol in HE.



HEAT Group 2a (High Disadvantage, Highest Attainment)

KS2 and KS4 attainment similar to non-disadvantaged peers with similar prior attainment (Group 4a).

Although average points scores at KS4 are similar, smaller proportions of student in this group (at least 5A*-A) when compared with their nondisadvantaged peers (Group 4a). Similar post-16 transition and destination/choice outcomes when compared with nondisadvantaged peers (Group 4a).

This group need extra attainment support at KS5 to make HE a viable option – only 64% achieve 3 A levels compared with 73% of Group 4a.



This group need extra support with considering HE as a viable option. Despite achieving the highest level at KS4, HESA data shows they have lower rates of HE progression: 64% compared with 74% for non-disadvantaged peers (Group 4a).

HESA data suggests that engaging this group in multiple activities appears to contribute to higher HE progression (compared with a single HE talk).

This group may need support with HE choice. They make fewer UCAS applications to Top 30 Universities than their nondisadvantaged peers in Group 4a despite having high KS4 results: 41% vs 48%.

They may need support beyond accepting a UCAS offer to ensuring they enrol in HE. 10% of the Unconditional Firm accepted applicants in this data did not go on to enrol in HE. This is a higher attrition rate than for their nondisadvantaged peers in Group 4a: 8%

HESA enrolment data shows they are less likely to enter a 'Top 30' HEI when compared with Group 4a: 28% vs. 40%.



HEAT Group 2b (High Disadvantage, Medium-High Attainment)

KS2 and KS4 attainment similar to non-disadvantaged peers with similar prior attainment (Group 4b). Lower rates of transition to post-16 education than nondisadvantaged peers (-3% compared with Group 4b).

Similar choices at post-16 to nondisadvantaged peers.

Similar KS5 attainment to nondisadvantaged peers.

This group had a higher proportion of applications to Top 30 Universities than their nondisadvantaged peers in Group 4b: 18% vs.16%. They also had a slightly higher proportion of Unconditional Firm decisions at Top 30 Universities than Group 4b: 15% vs. 14%.

82% of UCAS applications from this group progressed to an Unconditional Firm decision. A higher % of their nondisadvantaged peers (Group 4b) progressed to an Unconditional Firm: 84%

They may need support beyond accepting a UCAS offer to ensuring they enrol in HE. 13% of the Unconditional Firm accepted applicants in this data did not go on to enrol in HE.

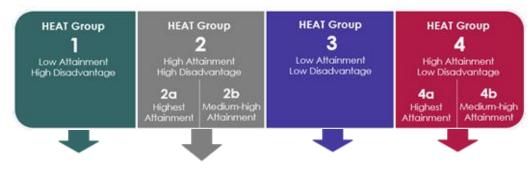
HESA data shows lower rates of HE progression: 35% compared with 40% for non-disadvantaged peers with similar attainment (Group 4b). No difference in proportions progressing to a 'Top 30' HEI when compared with Group 4b.

Data from the HEAT Jigsaw

The following figures provide the attainment and progression outcomes for each of the HEAT Groups. The outcomes for Groups 3 and 4 who, although classified as 'Low Disadvantage' may not be a target group for widening participation, are provided by way of comparison.

| Low | AT Group 1 Attainment bisadvantage | | nment | HEAT Group 3 Low Attainment Low Disadvantage | Hig | | | |
|--|---|-------------|-------------|---|-------|------|--|--|
| Outcome | WP Ta | arget Grou | ps | Non-disadvantaged comparison groups | | | | |
| | Key Stage | 2 Attainm | ent Band (y | /ear 6) | | | | |
| Source:HEA | T data and Dep | artment for | Education N | ational Pupil Datal | base) | | | |
| High or Medium KS2 Band | 56% | 97% | 91% | 61% | 98% | 92% | | |
| High or Medium KS2 Band (boys) | 60% | 97% | 92% | 62% | 98% | 92% | | |
| | | - | ment (year | • | | | | |
| | T data and Dep | artment for | Education N | ational Pupil Datal | base) | | | |
| Achieved 5 A*-C at GCSE (incl. E&M) | 0% | 100% | 100% | 0% | 100% | 100% | | |
| Achieved 5 A*-A at GCSE | 0.2% | 31% | 0% | 1% | 48% | 0% | | |
| Average GCSE capped point score | 289 | 401 | 331 | 297 | 411 | 332 | | |
| Transition to Level 3 study (post-16) Source: HEAT data, Department for Education National Pupil Database, Education and Skills Agency Individual Learner Records. | | | | | | | | |
| Found in Level 3 Study | 67% | 91% | 83% | 73% | 94% | 86% | | |
| Destination and qualification routes of those in Level 3 study Source: HEAT data, Department for Education National Pupil Database, Education and Skills Agency Individual Learner Records. | | | | | | | | |
| Studying Level 3 in School or 6 th form | 38% | 64% | 47% | 36% | 68% | 49% | | |
| Studying Level 3 in FE College | 58% | 35% | 50% | 60% | 30% | 48% | | |
| Studying A levels | 53% | 87% | 68% | 55% | 91% | 69% | | |
| Studying BTEC or Vocational qual. (at L3) | 45% | 13% | 31% | 43% | 9% | 30% | | |
| Studying an Apprenticeship (at L3) | 5% | 2% | 4% | 6% | 2% | 5% | | |

| н | HEAT Group | | Group | HEAT Group | | HEAT Group | | |
|---|-------------------|--|---------------------------|-----------------------------------|----------------|--|--|--|
| Low Attainment | | 2 High Attainment High Disadvantage | | Low Attainment Low Disadvantag | | 4 High Attainment Low Disadvantage | | |
| Hidr | High Disadvantage | | 2b | Low Discovering | 9 | 4a 4b | | |
| | | Highest Attainment | Medium-high Attainment | | High Attain | | | |
| | - | | | - | | - | | |
| Outcome | WP Targ | et Groups | N | on-disadvantage | ed compari | son groups | | |
| | | | | | | | | |
| Level 3 Attainment (year 13+) Source: HEAT data, Department for Education National Pupil Database, Education and Skills Agency Individual | | | | | | | | |
| Achieved 3 A level passes | 21% | Learner Re 64% | ecords. 34% | 26% | 73% | 34% | | |
| Achieved AAA+ at A level | 0.2% | 9% | 0.2% | 0.9% | 20% | 0.1% | | |
| Proportion of UCAS ap | | | | | | | | |
| | So | engagei urce: HEAT | | | | | | |
| Multiple activities including Summer School | 85% | 91% | 80% | 79% | 95% | 88% | | |
| Multiple activities including Campus Visit | 80% | 90% | 87% | 74% | 91% | 82% | | |
| Multiple/other activities | 76% | 91% | 82% | 79% | 95% | 88% | | |
| Single HE Information Talk only | 69% | 84% | 76% | 76% | 91% | 84% | | |
| Proportion of UF applicants (UCAS) who enrol in HE(HESA) by engagement Source: HEAT data, UCAS | | | | | | | | |
| Multiple activities including Summer School | 86% | 90% | 91% | 86% | 91% | 93% | | |
| Multiple activities including Campus Visit | 81% | 87% | 85% | 83% | 89% | 85% | | |
| Multiple/other activities | 83% | 91% | 87% | 84% | 93% | 87% | | |
| Single HE Information Talk only | 87% | 92% | 90% | 83% | 92% | 86% | | |
| Proportion of all Applications to HE by HEI type Source: HEAT data, UCAS | | | | | | | | |
| Top 30 University | 16% | 41% | 18% | 17% | 48% | 16% | | |
| Percentage of UF accepted applicants Source: HEAT data, UCAS | | | | | | | | |
| Do not enrol in HE | 17% | 10% | 13% | 16% | 8% | 13% | | |



Outcome

WP Target Groups

Non-disadvantaged comparison groups

| Entered Higher Education | | | | | | | | |
|---|-----------------|-------------|------------|-----------------|-------|------|--|--|
| Source: HEAT data, HESA Progressed to HE within 2 | | | | | | | | |
| years | 19% | 64% | 35% | 24% | 74% | 40% | | |
| | | | | | | | | |
| Progressed to HE within 5 | 25% | 67% | 40% | 29% | 75% | 44% | | |
| years | | | | | | | | |
| 3 A levels qualifiers - | | | | | | | | |
| Progressed to HE within 2 | 45% | 82% | 65% | 53% | 88% | 63% | | |
| years | | | | | | | | |
| Progressed to 'Top 30' HEI | 2% | 28% | 5% | 4% | 40% | 5% | | |
| Patterns of Outreach Engagement | | | | | | | | |
| Source: HEAT data | | | | | | | | |
| Proportion engaged in | | | | | | | | |
| multiple or intensive events (rather than single low | 88% | 94% | 91% | 85% | 92% | 88% | | |
| intensity event) | | | | | | | | |
| | | | | | | | | |
| Proportion engaged in pre- 16 outreach | 47% | 37% | 44% | 41% | 30% | 38% | | |
| | ace of the cont | ribution of | outreach t | o improved outo | somes | | | |
| Some evider | | | | • | Junes | | | |
| Progression to HE (within 5 years) Source: HEAT data, HESA | | | | | | | | |
| Multiple activities including | 29% | 70% | 43% | 34% | 76% | 49% | | |
| a Summer School | 2370 | 7078 | 4370 | 3470 | /0/8 | 49% | | |
| Multiple / Other activities | 25% | 69% | 41% | 30% | 77% | 45% | | |
| | 23/0 | 0970 | 41/0 | | //// | 4370 | | |
| Single HE Information Talk | 25% | 59% | 40% | 27% | 68% | 40% | | |
| | | | | | | | | |

Figure 1: The HEAT Jigsaw

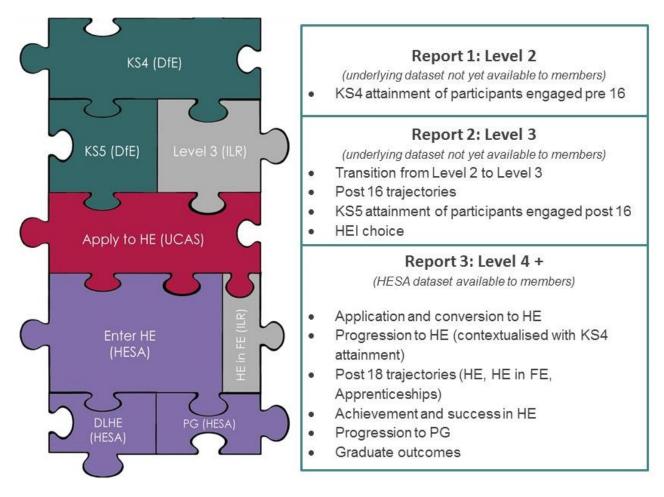
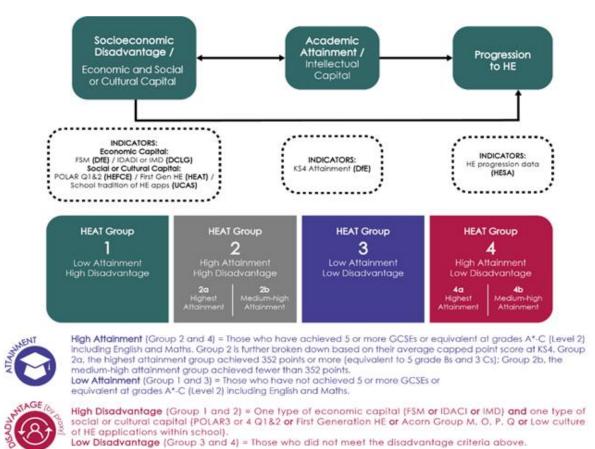


Figure 2: The HEAT Groups



*Average capped point scores at KS4 are 401 points for Group 2a and 331 points for Group 2b. This difference of 70 points equates to 11.6 grades over eight GCSEs or equivalents.