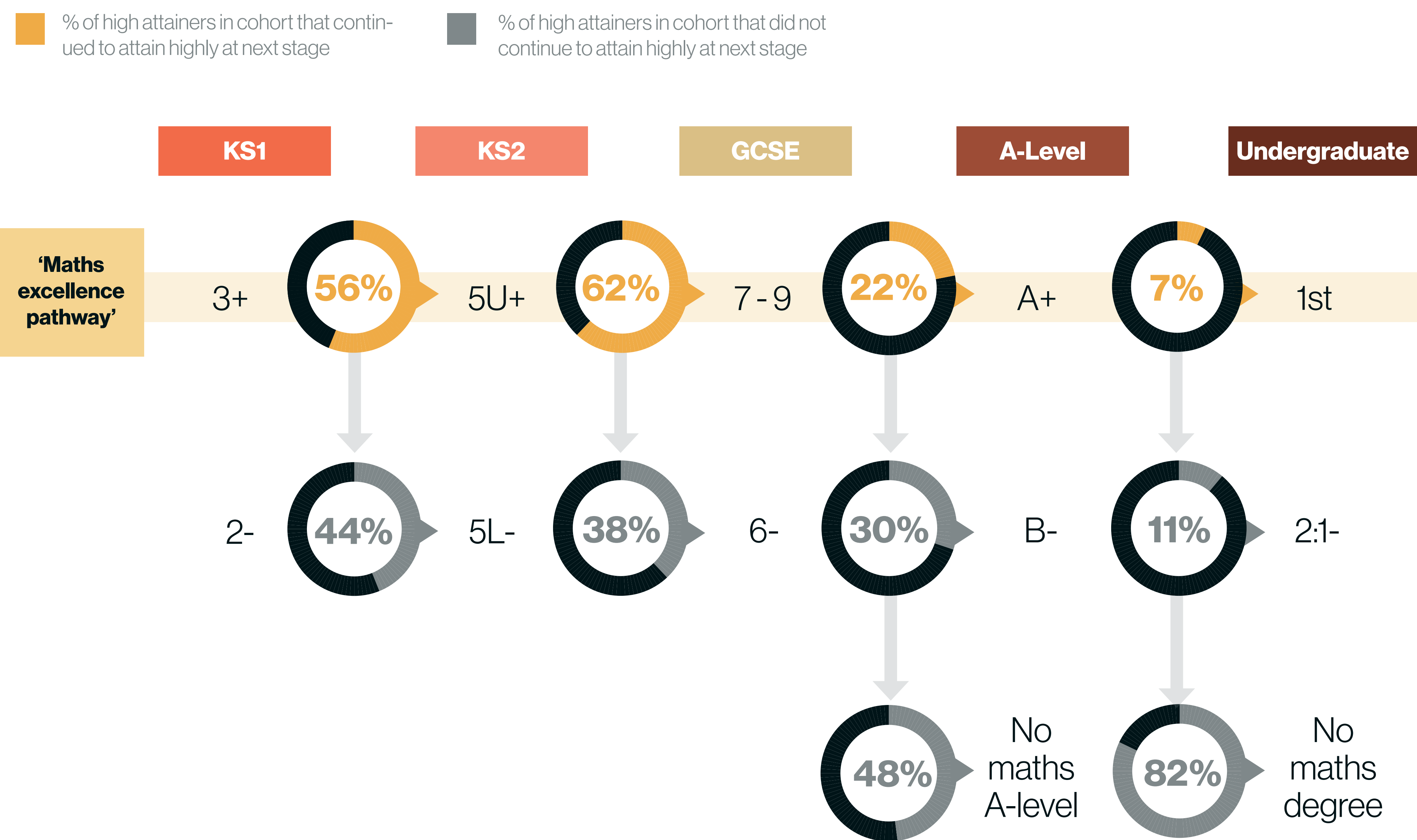


HIGH ATTAINING PUPILS FREQUENTLY 'LEAK' FROM THE PIPELINE

There is significant attrition of pupils who attain highly at one school stage and then do not attain highly at the next. In short, the pipeline is 'leaky', losing around 40% of high attaining pupils at each assessment stage.

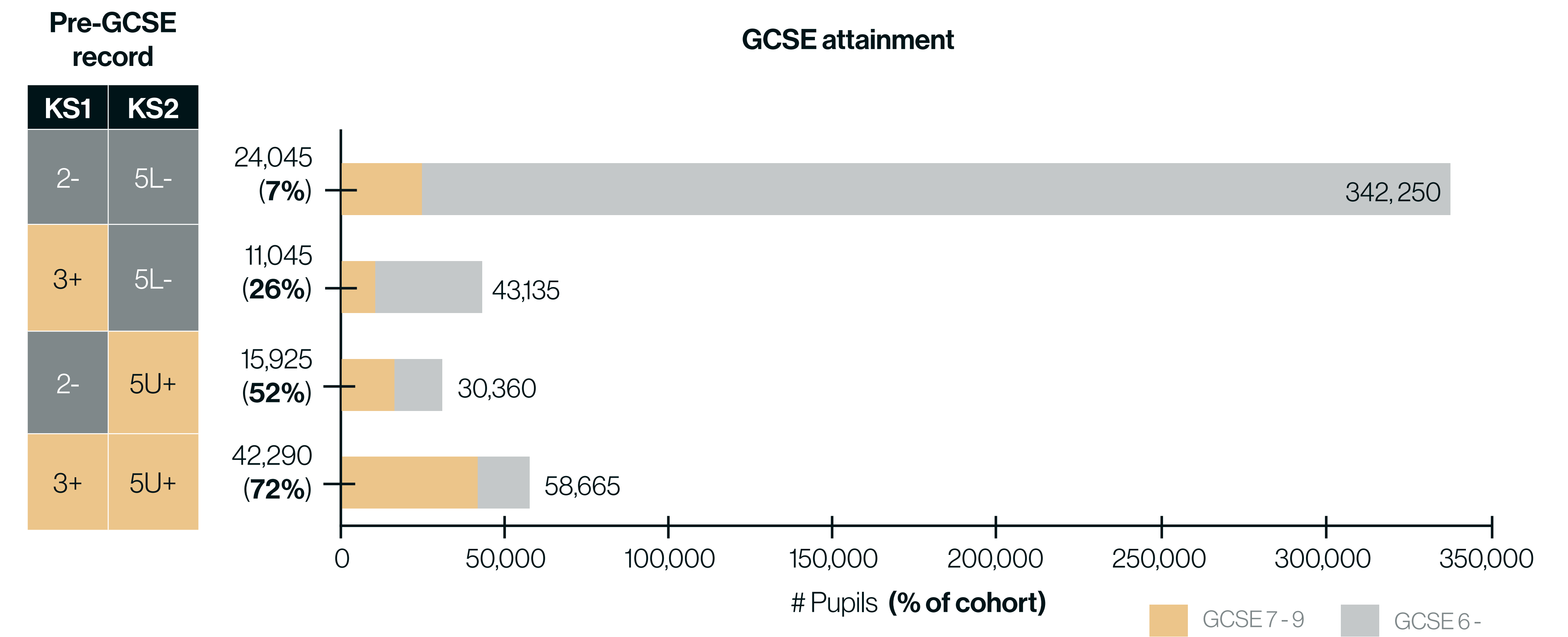


There is much to be gained by supporting already high attaining pupils to stay on the 'maths excellence pathway'. We should not assume that these pupils 'will be fine'.

Note: transition rates from KS1 to A-Level based on national cohort of students in the NPD who took GCSEs in academic year 2016/17, linked to their academic records back to the end of KS1 (in 2007/08) and forward to A levels (in 2018/19); transition rates from A-level to Undergraduate based on a HESA cohort of around a quarter of a million first-year undergraduate students in 2015/16, linked back to their A level and GCSE outcomes and forward to undergraduate outcomes.

Source: National Pupil Database 2023

Pupils with a consistent record of high attainment at key stage 1 and key stage 2 maths are up to 10x more likely to attain highly at GCSE maths.

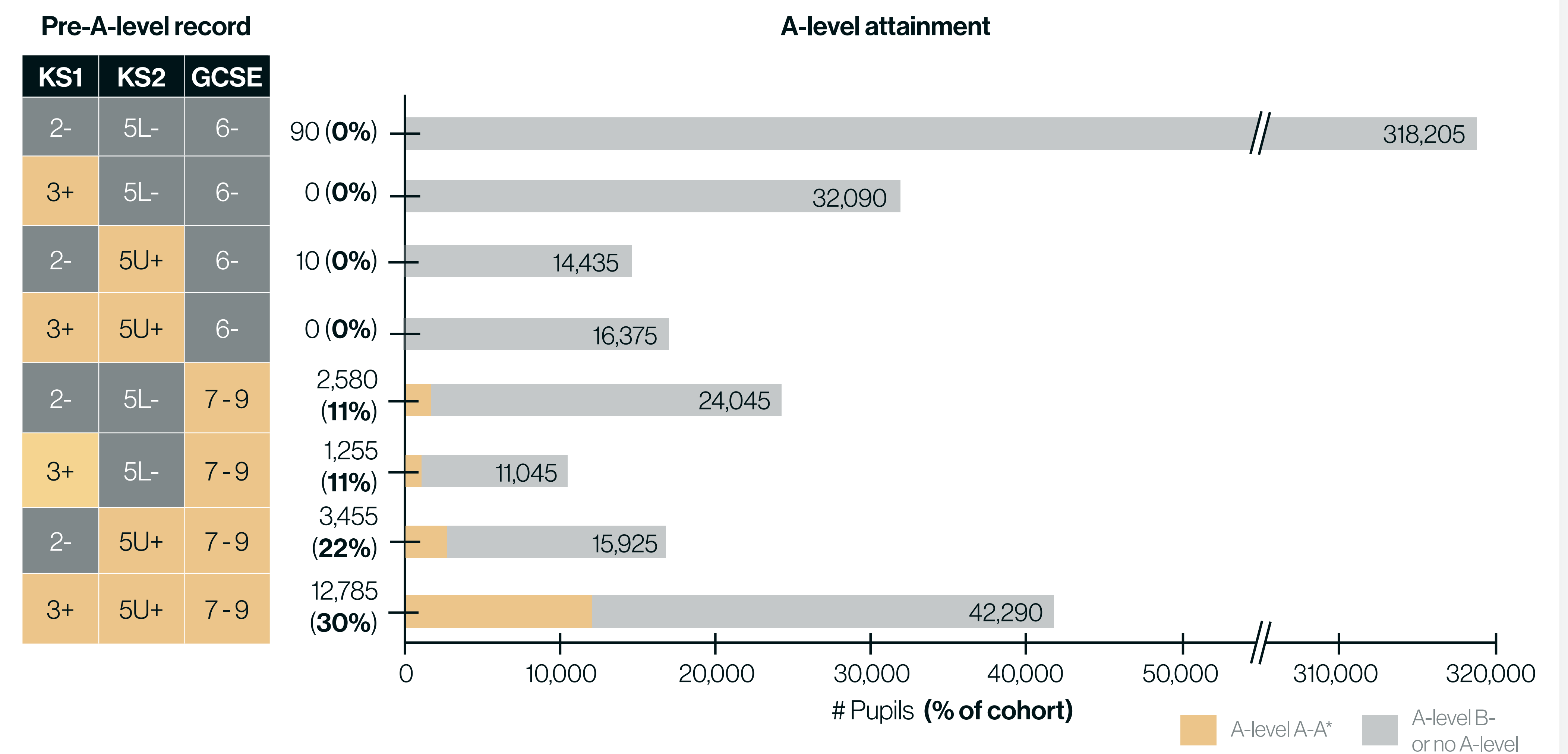


- If a pupil has not attained highly in key stage one to key stage two, they are very unlikely to do so at GCSE.
- Recency matters too. Attainment at key stage two has more impact than at key stage one.

Note: Based on national cohort of students in the NPD who took GCSEs in academic year 2016/17, linked to their academic records back to the end of KS1 (in 2007/08) and forward to A-levels (in 2018/19).

Source: National Pupil Database 2023

The same is true post-16, where pupils with a consistent record of high attainment are more likely to attain highly at A-level and beyond.



- If a pupil does not achieve GCSE grade 7+, they have virtually zero chance of attaining highly at A-level.
- Longevity matters too. Even if a pupils achieves GCSE grade 7+, a high grade at KS2 still has a positive impact.

Note: Based on national cohort of students in the NPD who took GCSEs in academic year 2016/17, linked to their academic records back to the end of KS1 (in 2007/08) and forward to A-levels (in 2018/19).

Source: National Pupil Database 2023