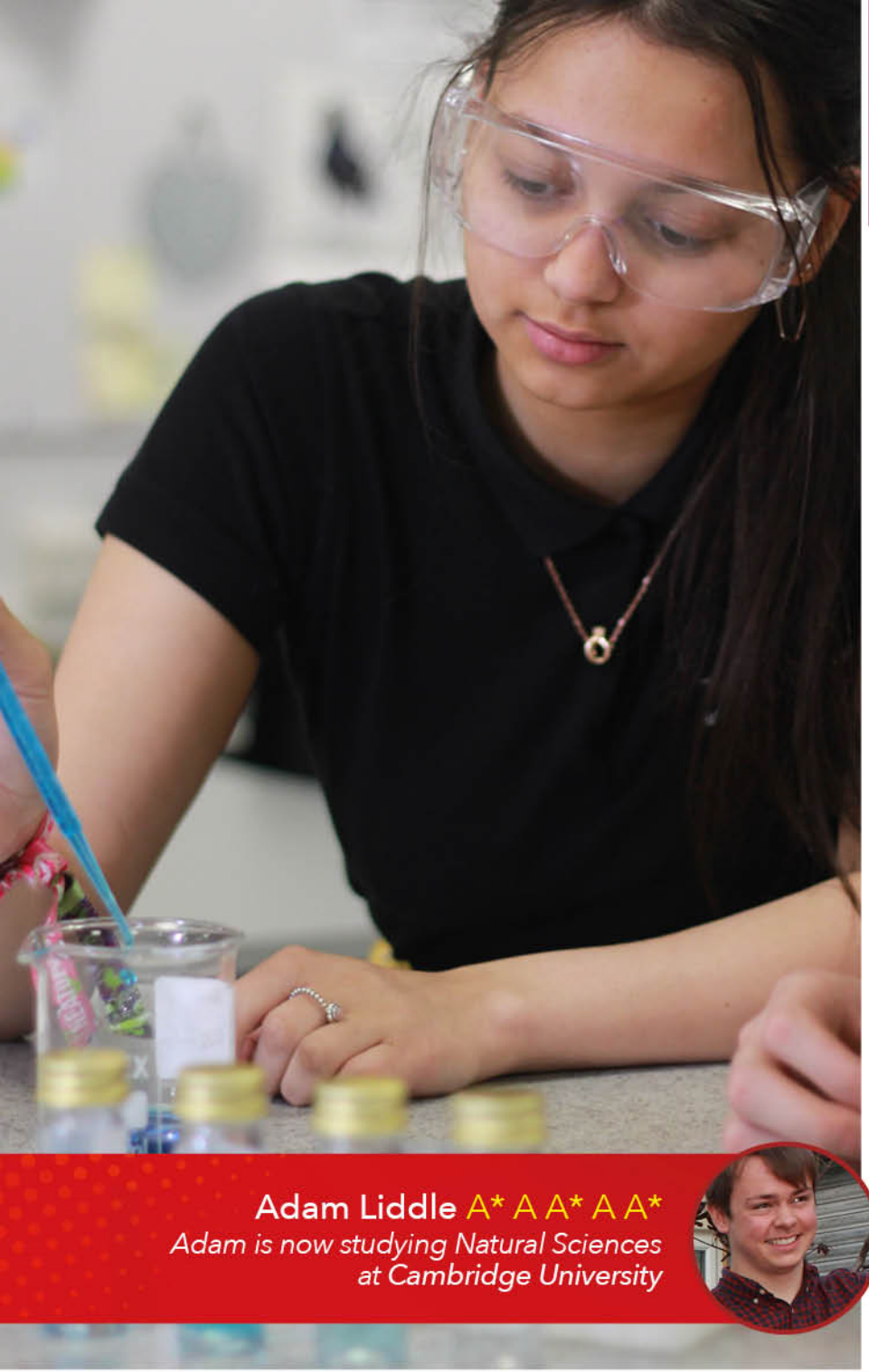

Adam Liddle A* A A* A A*

Adam is now studying Natural Sciences at Cambridge University

Chemistry

Course Overview

A level chemistry has changed from modular to linear assessment. 20% of the A level marks require the use of higher GCSE maths skills. All of the assessment for the A level will come from 3 external examinations at the end of Year 13.

Entry Requirements

- 7 recommended in all science subjects taken at GCSE, with a 7 recommended in Maths
- Minimum 6 grades in core and additional science, 6 in Maths and English
- Minimum 6 grades in Biology in all science subjects

You must have maturity, self-discipline, good study skills and the motivation to succeed.

A-Level Year 1

Physical Chemistry
Including atomic structure, amount of substance, bonding, energetics, kinetics, chemical equilibria and le Chatelliers.

Inorganic Chemistry
Including periodicity, group 2 the alkaline earth metals, group 7, the halogens.

Organic Chemistry.
Including introduction to organic chemistry, alkanes, halogenoalkanes, alkenes, alcohols and organic analysis.

A-Level Year 2

Physical Chemistry
Including thermodynamics, rate equations, equilibrium constant (Kc) for homogenous systems, electrode potentials and electrochemical cells.

Inorganic Chemistry
Including properties of period 3 elements and their oxides, transition metals and reactions of ions in aqueous solution.

Organic Chemistry
Including optical isomerism, aldehydes and ketones, carboxylic acids and their derivatives, aromatic chemistry, amines, polymers, amino acids, proteins and DNA, organic synthesis, NMR spectroscopy, chromatography.