



Beech Hall School



Sixth Form



Possunt Quia Posse Videntur - We can because we think we can



I am delighted to be able to welcome you to the launch of Beech Hall's inaugural Sixth Form, an opportunity for students to either continue their academic studies in the nurturing comfort of our environment, or for us to welcome new students to our campus. Small, supportive and nurturing are the bywords for what is on offer for students in Years 12 and 13, whilst the school's core values of **kindness, respect, integrity** and **ambition** will continue to underpin everything that we do on a daily basis.

Whilst this prospectus indicates an outline of what may be possible, it is important at this earliest of stages that we remain open to possibilities for all students. Please do not be deterred if your subject choice or course is not included, we will do our best to accommodate you whilst also being mindful of not stretching ourselves too thinly. We aim to offer a mix of A-level and BTEC Level 2/3 subjects whilst also including an important core curriculum of:

- Weekly opportunity for sport/games/recreation
- Sex & Relationships Education (RSE)
- Careers guidance, including UCAS application
- Work experience
- Internship with 8billionideas

For students joining Beech Hall from outside, there may be the opportunity to resit English Language and Maths GCSEs if this is required. It is intended that students in Year 12 will follow this broad timetable outline:

- 18 academic lessons of one hour each (i.e. six hours per subject x three subjects)
- 2 lessons of sport/games/recreation (i.e. one afternoon)
- 2 lessons of community-based work experience/volunteering (i.e. one afternoon)
- 1 lesson focused on managing finance/life skills
- 1 lesson of PSHE/RSE
- 4 lessons of self-study

I shall look forward to either continuing the conversation about your child's education, or welcoming you to Beech Hall and beginning the journey. Why not come in for a conversation?

James D Allen, Headmaster

Business Studies AS/A-level

Subject Content

- (1) What is business?
- (2) Managers, leadership and decision-making
- (3) Decision-making to improve marketing performance
- (4) Decision-making to improve operational performance
- (5) Decision-making to improve financial performance
- (6) Decision-making to improve human resource performance
- (7) Analysing the strategic position of a business (A-level only)
- (8) Choosing strategic direction (A-level only)
- (9) Strategic methods: how to pursue strategies (A-level only)
- (10) Managing strategic change (A-level only)

Assessment

Papers 1 and 2: (1) to (6) above

- Written exam: 1 hour 30 minutes
- 80 marks, 50% each

A-level Assessment - all of the above content

Paper 1: multiple choice (15), short answer questions (35), two essay questions (25 each)

- Written exam: 2 hours
- 100 marks, 33.3%

Paper 2: three data response questions worth equal marks

- Written exam: 2 hours
- 100 marks, 33.3%

Paper 3: One compulsory case study followed by approximately six questions

- Written exam: 2 hours
- 100 marks, 33.3%



Chemistry A-level

Subject Content

3.1 Physical chemistry

- 3.1.1 Atomic structure
- 3.1.2 Amount of substance
- 3.1.3 Bonding
- 3.1.4 Energetics
- 3.1.5 Kinetics
- 3.1.6 Chemical equilibria, Le Chatelier's principle and K_c
- 3.1.7 Oxidation, reduction and redox equations
- 3.1.8 Thermodynamics
- 3.1.9 Rate equations
- 3.1.10 Equilibrium constant K_p for homogeneous systems
- 3.1.11 Electrode potentials and electrochemical cells
- 3.1.12 Acids and bases

3.2 Inorganic chemistry

- 3.2.1 Periodicity
- 3.2.2 Group 2, the alkaline earth metals
- 3.2.3 Group 7(17), the halogens
- 3.2.4 Properties of Period 3 elements and their oxides
- 3.2.5 Transition metals
- 3.2.6 Reactions of ions in aqueous solution

3.3 Organic chemistry

- 3.3.1 Introduction to organic chemistry
- 3.3.2 Alkanes
- 3.3.3 Halogenoalkanes
- 3.3.4 Alkenes
- 3.3.5 Alcohols
- 3.3.6 Organic analysis
- 3.3.7 Optical isomerism
- 3.3.8 Aldehydes and ketones
- 3.3.9 Carboxylic acids and derivatives
- 3.3.10 Aromatic chemistry
- 3.3.11 Amines
- 3.3.12 Polymers
- 3.3.13 Amino acids, proteins and DNA
- 3.3.14 Organic synthesis
- 3.3.15 Nuclear magnetic resonance spectroscopy
- 3.3.16 Chromatography



Chemistry A-level

Assessment

Paper 1

- Relevant physical chemistry topics (sections 3.1.1 to 3.1.4, 3.1.6 to 3.1.8 and 3.1.10 to 3.1.12)
- Inorganic chemistry (section 3.2)
- Relevant practical skills

Assessed written exam: 2 hours, 105 marks, 35% of A-level
Questions: 105 marks of short and long answer questions

Paper 2

- Relevant physical chemistry topics (sections 3.1.2 to 3.1.6 and 3.1.9)
- Organic chemistry (section 3.3)
- Relevant practical skills

Assessed written exam: 2 hours, 105 marks, 35% of A-level
Questions: 105 marks of short and long answer questions

Paper 3

- Any content
- Any practical skills

Assessed written exam: 2 hours, 90 marks, 30% of A-level
Questions:

- ▶ 40 marks of questions on practical techniques and data analysis
- ▶ 20 marks of questions testing across the specification
- ▶ 30 marks of multiple choice questions





Computer Science AS/A-level

AS Subject Content

- (1) Fundamentals of programming
- (2) Fundamentals of data structures
- (3) Systematic approach to problem solving
- (4) Theory of computation
- (5) Fundamentals of data representation
- (6) Fundamentals of computer systems
- (7) Fundamentals of computer organisation and architecture
- (8) Consequences of uses of computing
- (9) Fundamentals of communication and networking

Assessment

Paper 1: tests a student's ability to programme, as well as theoretical knowledge (1) to (4)

- On-screen exam: 1 hour 45 minutes, 50%

Paper 2: tests a student's ability to answer questions from subject content (5) to (9)

- Written exam: 1 hour 30 minutes, 50%

A-level Subject content

All of the above content + ...

- (10) Fundamentals of algorithms
- (11) Fundamentals of databases
- (12) Big data
- (13) Fundamentals of functional programming
- (14) Non-exam assessment - the computing practical project

Assessment

- Paper 1: on-screen exam 2 hours 30 minutes, 40%
- Paper 2: Written exam 2 hours 30 minutes, 40%
- NEA: assesses a student's ability to use the knowledge and skills gained through the course to solve or investigate a practical problem; 75 marks, 20%



Design Technology A-level

Subject Content

- (1) Materials
- (2) Performance characteristics of materials
- (3) Processes and techniques
- (4) Digital technologies
- (5) Topic 5: Factors influencing the development of products
- (6) Topic 6: Effects of technological developments
- (7) Potential hazards and risk assessment
- (8) Features of manufacturing industries
- (9) Designing for maintenance and the cleaner environment
- (10) Topic 10: Current legislation
- (11) Information handling, Modelling and forward planning
- (12) Further processes and techniques

Assessment

The paper includes calculations, short-open and open-response questions, as well as extended-writing questions focused on:

- ▶ analysis and evaluation of design decisions and outcomes, against a technical principle, for prototypes made by others.
 - ▶ analysis and evaluation of wider issues in design technology, including social, moral, ethical and environmental impacts.
- Students must answer all questions.
 - Students must have calculators and rulers in the examination.
- Component 2 (50%) – NEA Project

Content overview

- Students individually and/or in consultation with a client/end user identify a problem and design context.
- Students will develop a range of potential solutions which include the use of computer aided design and evidence of modelling.
- Students will be expected to make decisions about the designing and development of the prototype in conjunction with the opinions of the client/end user.
- Students will realise one potential solution through practical making activities with evidence of project management and plan for production.
- Students will incorporate issues related to sustainability and the impact their prototype may have on the environment



Design Technology A-level

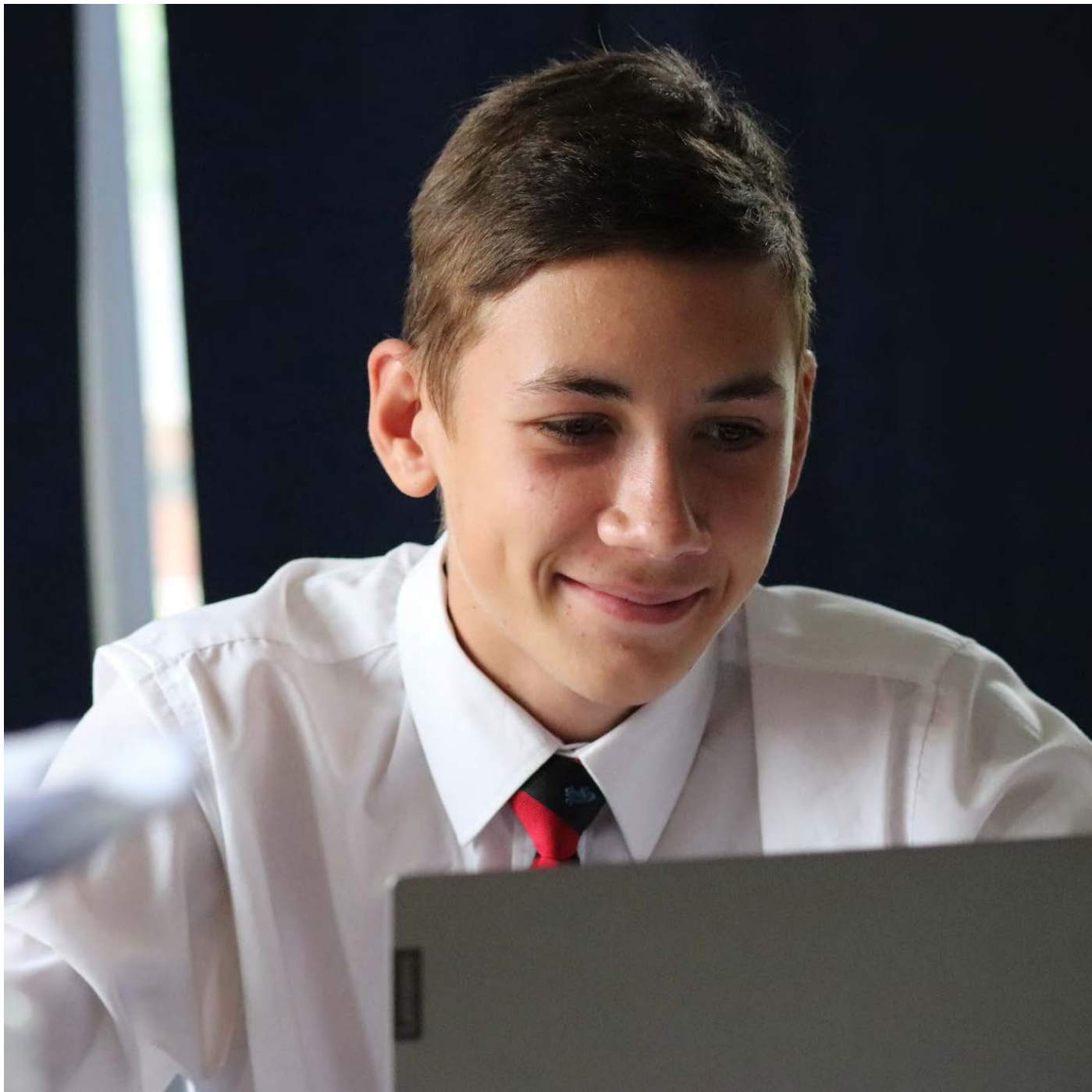
Content overview

- Students are expected to analyse and evaluate design decisions and outcomes for prototypes/products made by themselves and others
- Students are expected to analyse and evaluate of wider issues in design technology, including social, moral, ethical and environmental impacts.

Assessment

- The investigation report is internally assessed and externally moderated.
- Students will produce a substantial design, make and evaluate project which consists of a portfolio and a prototype
- The portfolio will contain approximately 40 sides of A3 paper (or electronic equivalent)
- There are four parts to the assessment:
 - ▶ Part 1: Identifying and outlining possibilities for design identification and investigation of a design possibility, investigation of client/end user needs, wants and values, research and production of a specification
 - ▶ Part 2: Designing a prototype Design ideas, development of design idea, final design solution, review of development and final design and communication of design ideas
 - ▶ Part 3: Making a final prototype Design, manufacture and realisation of a final prototype, including tools and equipment and quality and accuracy
 - ▶ Part 4: Evaluating own design and prototype Testing and evaluation





English Language A-level

Subject Content

- Textual variations and representations
- Children's language development (0-11 years)
- Language diversity and change
- Language discourses
- Writing skills
- Language investigation
- Original writing

Assessment

Paper 1: Language, the Individual and Society

- Written exam: 2 hours 30 minutes
- 100 marks, 40%
- Section A: two texts linked by theme requiring analysis of the texts separately and by comparison (70 marks)
- Section B: a discursive essay on children's language development (30 marks)

Paper 1: Language, the Individual and Society

- Written exam: 2 hours 30 minutes
- 100 marks, 40%
- Section A: Either an evaluative essay on language diversity or on language change (30 marks)
- Section B: Analysis of two texts and a directed writing task (70 marks)

Non-exam assessment: Language in Action

- Word count: 3,500
- 100 marks, 20%, assessed by teachers, moderated by AQA



Mathematics A-level

Subject Content

- (a) Proof
- (b) Algebra and functions
- (c) Coordinate geometry
- (d) Sequences and series
- (e) Trigonometry
- (f) Exponentials and logarithms
- (g) Differentiation
- (h) Integration
- (i) Numerical methods
- (j) Vectors
- (k) Quantities and units in mechanics
- (l) Kinematics
- (m) Forces and Newton's laws
- (n) Moments
- (o) Statistical sampling
- (p) Data presentation and interpretation
- (q) Probability
- (r) Statistical distributions
- (s) Statistical hypothesis testing

Assessment

Paper 1: (a) to (i) above

- Written exam: 2 hours
- 100 marks, 33.3%
- A mix of question styles, single-mark questions to multi-step problems

Paper 2: (j) to (n) above

- Written exam: 2 hours
- 100 marks, 33.3%
- A mix of question styles, single-mark questions to multi-step problems

Paper 3: (o) to (s) above

- Written exam: 2 hours
- 100 marks, 33.3%
- A mix of question styles, single-mark questions to multi-step problems



Physics A-level

Subject Content

Core content

- 1 Measurements and their errors
- 2 Particles and radiation
- 3 Waves
- 4 Mechanics and materials
- 5 Electricity
- 6 Further mechanics and thermal physics
- 7 Fields and their consequences
- 8 Nuclear physics

Options

- 9 Astrophysics
- 10 Medical physics
- 11 Engineering physics
- 12 Turning points in physics
- 13 Electronics

Assessment

Paper 1

What's assessed: sections 1 to 5 and 6.1 (Periodic motion)

Assessed: written exam: 2 hours, 85 marks, 34% of A-level

Questions: 60 marks of short and long answer questions and 25 multiple choice questions on content.

Paper 2

What's assessed: sections 6.2 (Thermal Physics), 7 and 8
Assumed knowledge from sections 1 to 6.1

Assessed: written exam: 2 hours, 85 marks, 34% of A-level

Questions: 60 marks of short and long answer questions and 25 multiple choice questions on content.

Paper 3

What's assessed: Section A Compulsory section: Practical skills and data analysis. Section B: Students enter for one of sections 9, 10, 11, 12 or 13

Assessed: written exam: 2 hours, 80 marks, 32% of A-level

Questions: 45 marks of short and long answer questions on practical experiments and data analysis. 35 marks of short and long answer questions on optional topic.



BTEC level 3 Extended Diploma in Sport

Mandatory Units

This is a two-year, full-time course equivalent in size to three A Levels. 14 units of which 10 are mandatory (78%) and 4 are external (22%).

- Anatomy and physiology
- Fitness training and programming for health, sport and wellbeing
- Professional development in the sports industry
- Sports leadership
- Practical sports performance
- Coaching for performance
- Research methods in sport
- Development and provision of sport and physical activity
- Investigating business in sport and the active leisure industry
- Skill acquisition in sport

Optional Units

- Application of fitness testing
- Sports psychology
- Sports event organisation
- Sports injury management
- Sports performance analysis
- Rules, regulations and officiating in sport
- Technical and tactical demands of sport



English GCSE resit

Achieving a Grade 4 or above in GCSE English Language will allow you to study a wider range of courses in both Further and Higher Education. Furthermore, passing the GCSE English Language may provide more opportunities in the world of work.

November 2024 and/or June 2025

Paper 1

- Explorations in creative reading and writing
- Written exam: 1 hour 45 minutes
- 50%

Paper 2

- Writers' viewpoints and perspectives
- Written exam: 1 hour 45 minutes
- 50%

Non examination assessment

- Spoken language, assessed in school
- 0%



Mathematics GCSE resit

Achieving a Grade 4 or above in GCSE Mathematics will allow you to study a wider range of courses in both Further and Higher Education, and may provide more opportunities in the world of work.

November 2024 and/or June 2025

Paper 1

- Written exam: 1 hour 30 minutes
- 80 marks
- Non-calculator
- 33.3%

Paper 2

- Written exam: 1 hour 30 minutes
- 80 marks
- Calculator allowed
- 33.3%

Paper 3

- Written exam: 1 hour 30 minutes
- 80 marks
- Calculator allowed
- 33.3%





Sixth Form

You are invited to join our brand new Sixth Form to continue your learning journey that will be bespoke to you and your interests and passions.

With a strong emphasis on personal wellbeing and self-reliance, as well as achieving the very best outcomes for the future, we will look forward to working with you to create a genuinely purposeful and fulfilling two years.

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Beech Hall School

Sixth Form

Opening

September 2024



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AND NON-SELECTIVE