

**ALWAYS  
LEARNING**

# University Technical Colleges

Pearson Support

# 1

**Strategic Partnership Manager**

Dianne Gomery

PEARSON

# Pearson and University Technical Colleges

Broadening and strengthening our relationship

## Significant Advantages

Pearson works in partnership with UTCs to take forward your vision

Our dedicated UTC Managers support UTCs' strategic plans and Curriculum planning on a 1:1 basis

Pearson works in partnership to manage change – providing support for teachers and the new teaching and learning environment

Curriculum Development Managers and Curriculum Secondary Consultants regionally placed for ongoing support.

# Pearson and University Technical Colleges

Broadening and strengthening our relationship

**Other significant advantages:** Dedicated Subject Specialists across both Vocational and Academic qualifications

Subject Specialists support your mapping of UTC Projects across our academic and Vocational qualifications including:

- Academic KS4 and BTEC L2
- Academic KS5 and BTEC L3

And where relevant and possible: Workskills and Functional Skills  
Plus:

- L4 and L5 HNs (HNC and HND Diploma)
- Edexcel BTEC Level 6 Diplomas in Engineering: Mechanical, Electrical /Electronic and Manufacturing (L6 Subsidiary Diploma @ 60 Credits and L6 Diploma @ 90 Credits)
- Apprenticeships and Higher Apprenticeships

# Pearson and University Technical Colleges

## Broadening and strengthening our relationship

- Dedicated contact person to quickly answer or find the answer to your UTC questions
- ResultsPlus helps you to analyse your students' exam results to inform future teaching and learning
- EBacc Tracker enables SLT to monitor students' progress towards their Baccalaureate – these new reports give leaders early visibility of any issues so they can effectively and quickly intervene
- Centre support to aid students' transition from our suite of Foundation Learning qualifications

# Pearson and University Technical Colleges

## Broadening and strengthening our relationship

- Provide dedicated and personalised teacher support for ResultsPlus training
- Provide Digital technology resource training for GCSE subjects
- Work with UTCs to develop the use of the Virtual Learning Environment (e1/fronter) and MIS (e1) to promote and extend pupil independent learning and to inform teaching and learning

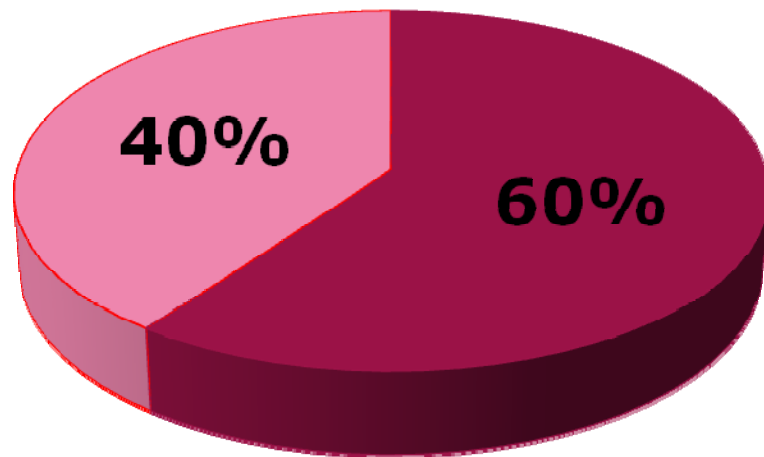
# University Technical Colleges

Pearson and the UTC Curriculum and Projects

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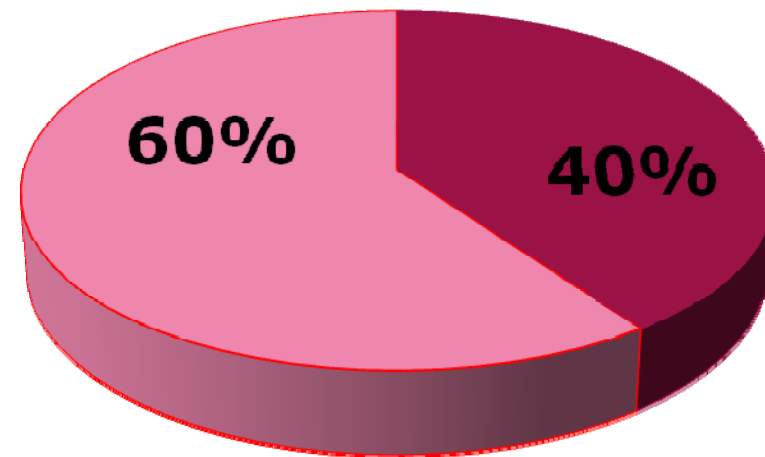
## UTCs Y10 and Y11

40% Project based integrated curriculum  
60% Broad Curriculum



## UTCs Y12 and Y13

60% Project based integrated curriculum  
40% Broad Curriculum



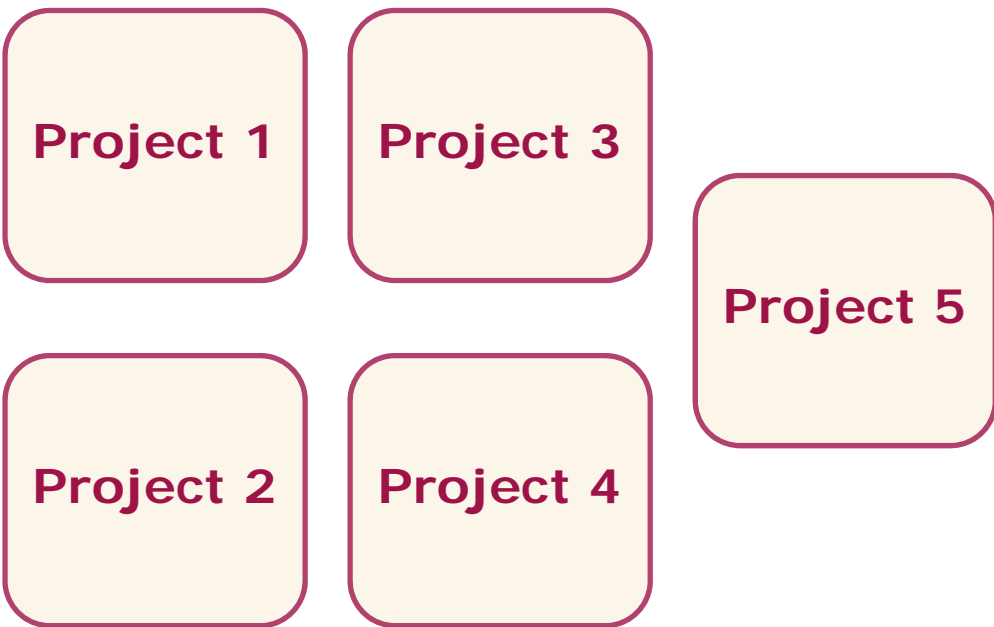


# The UTC Curriculum KS4

EBacc Measure	Headline Measures 5 GCSEs A*-C	Broad Curriculum	
English	English	<b>CORE: ENGLISH and MATHS</b>	<b>HUMANITIES</b>
English Lit	Maths	<b>SCIENCE</b>	<b>LANGUAGES</b>
Maths	?	<b>SPECIALIST SUBJECT/S</b>	<b>IT</b>
Science	?	<b>ADDITIONAL OPTIONS/ SUBJECTS</b>	<b>LIFE SKILLS / WORK OR VOCATIONALLY RELATED PROJECTS/SOCIAL ACTIVITY IN THE COMMUNITY</b>
Science	?		
MFL			
Humanities			

# Y10

EBacc Measure	Headline Measures 5 GCSEs A* -C
English	English
English Lit	Maths
Maths	?
Science	?
Science	?
MFL	
Humanities	



Broad Curriculum example	
BTECs / GCSEs in Specialist Subject	GCSE Humanities History and/or Geography or elements / other
GCSEs in specialist subjects e.g. Resistant Materials	GCSE Modern Foreign Language –or elements / other
NVQ Level 2 Performing Engineering Operations	NVQ Level 2 Performing Manufacturing Operations
BTEC/GCSE Science	BTEC I&CT / GCSE ICT / GCSE Computing Science
GCSE Statistics	Level 2 Higher Project
BTEC Business / GCSE Applied Business NVQ Business Improvement Techniques	Work or Vocationally Related Projects/ Social Activity in the Community
BTEC /GCSE Sport and other extra curricula subjects	Money and Finance / Sustainability / Cooking Skills

# Y11

EBacc Measure	Headline Measures 5 GCSEs A* -C
English	English
English Lit	Maths
Maths	?
Science	?
Science	?
MFL	
Humanities	

Project 6

Project 8

Project 10

Project 7

Project 9

Broad Curriculum example	
BTECs / GCSEs in Specialist Subject	GCSE Humanities History and/or Geography or elements / other
GCSEs in specialist subjects e.g. Resistant Materials	GCSE Modern Foreign Language –or elements / other
NVQ Level 2 Performing Engineering Operations	NVQ Level 2 Performing Manufacturing Operations
BTEC/GCSE Science	BTEC I&CT / GCSE ICT / GCSE Computing Science
GCSE Statistics	Level 2 Higher Project
BTEC Business / GCSE Applied Business NVQ Business Improvement Techniques	Work or Vocationally Related Projects/ Social Activity in the Community
BTEC /GCSE Sport and other extra curricula subjects	Money and Finance / Sustainability / Cooking Skills

# UTCs 5 Project driven exciting scenarios in Y10

## Project 1

- **A challenge and question to solve with specific tasks over 6 weeks / a focus on team work and collective problem solving**
- English - a few elements, maths examples and substantial Science

## Project 2

- **Industry led challenge requiring presentation/ working in small groups over 6 weeks**
- Elements of English, including presentation and communication skills, substantial maths and some Science

## Project 3

- **University driven project supported by MA students over 6 weeks**
- English - Report Writing and presentation skills, substantial maths and Science – building on research and questioning skills and team work

# UTCs 5 Project driven exciting scenarios in Y10

## Project 4

- **Group work and Industry challenges requiring collective problem solving and completed work within a given time frame for presentation to University staff**
- English – significantly important, maths examples checked and with some Science

## Project 5

- **Industry and University led challenge requiring presentation/ working in groups of 2 or 3 with focus on research and ideas to solve challenge**
- Elements of English including enhanced presentation and communication skills, increased competence and challenge in maths and Science

## Major Review

- **Review of Project completion over two years and participation as both a team member and as an individual.**
- **Careers Advice and options explored as student moves into Y11**

# Project Mapping

**Project 1** A challenge or question to solve with specific tasks over 6 weeks / a focus on team work and collective problem solving

**English**- a few elements

**Maths**- multiple examples

**Science**- substantial opportunities

**MFL**- terms and definitions applied

**NVQ Level 2 Performing Engineering Operations** –elements covered

**NVQ Level 2 Performing Manufacturing Operations** –elements covered

**History**– elements of: Engineering / I&CT and Digital / Construction / Health and Medical Technology

**BTEC Specialist subject**- elements of 2 Mandatory units

**Business and Enterprise** -elements

**BTEC I&CT** -elements of 1 Mandatory unit

**GCSE Resistant Materials** –elements covered

EBacc Measure	Headline Measures 5 GCSEs A*-C	Broad Curriculum example	
English	English	BTECs / GCSEs in Specialist Subject	Humanities Options: History and/or Geography or elements / other
English Lit	Maths	GCSEs in specialist subjects e.g. Resistant Materials	Languages Options: GCSE Modern Foreign Language –or elements / other
Maths	?	NVQ Level 2 Performing Engineering Operations	NVQ Level 2 Performing Manufacturing Operations
Science	?	Science Options: BTEC/GCSE Science	IT Options: BTEC I&CT / GCSE ICT / GCSE Computing Science
Science	?	GCSE Statistics	Level 2 Higher Project
MFL		BTEC Business / GCSE Applied Business NVQ Business Improvement Techniques	Work or Vocationally Related Projects/ Social Activity in the Community
Humanities		BTEC /GCSE Sport and other extra curricula subjects	Money and Finance / Sustainability / Cooking Skills

# Project Mapping

**Project 1** A challenge or question to solve with specific tasks over 6 weeks / a focus on team work and collective problem solving

**English**- a few elements

**Maths**- multiple examples

**Science**- substantial opportunities

**MFL**- terms and definitions applied

**NVQ Level 2 Performing Engineering Operations** –elements covered

**NVQ Level 2 Performing Manufacturing Operations** –elements covered

**History**– elements of: Engineering / I&CT and Digital / Construction / Health and Medical Technology

**BTEC Specialist subject**- elements of 2 Mandatory units

**Business and Enterprise** -elements

**BTEC I&CT** -elements of 1 Mandatory unit

**GCSE Resistant Materials** –elements covered

## Discrete delivery to cover full programme of study

English, maths, Sciences

Other subjects where the PoS is not fully covered by the Projects

Multiple opportunities to learn and practice skills – either via a VLE or Active Learn where students may work independently -online, anytime, anywhere

Collaboration mechanisms – between staff and students

Excellent Careers and Education Advice

# University Technical Colleges

## UTC Learners' Curriculum

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# Curriculum Mapping

Y10 and Y11 COHORT 1 – approximately 20-25% year intake

A group of academically confident English Baccalaureate learners with aspirations to study Engineering at University

## Student A

Headline Measures 5 GCSEs A* -C	English Baccalaureate
GCSE English	<b>GCSE English</b>
GCSE Maths	<b>GCSE English Literature</b>
GCSE Science Physics	<b>GCSE Maths</b>
GCSE Science Chemistry	<b>GCSE Science Physics</b>
GCSE Science Biology	<b>GCSE Science Chemistry</b>
	<b>GCSE Science Biology</b>
	<b>GCSE History</b>
	<b>GCSE German</b>

## Broad Curriculum Offer example

<b>GCSE Double Award Engineering</b> or GCSE Double Award Manufacturing / BTEC Level 2 First Certificate Engineering	Humanities Options: <b>GCSE History</b> or study of subject e.g. Engineering / GCSE Geography or study of environmental issues
One or more: <b>GCSE Resistant Materials</b> <b>GCSE Electronic Products</b> GCSE Graphic Products	Languages Options: <b>GCSE German</b> or the study of German for business
Science Options: <b>GCSE Physics</b> <b>GCSE Chemistry</b> <b>GCSE Biology</b>	IT Options: BTEC I&CT / GCSE ICT Single or Double Award / <b>GCSE Computing Science</b>
<b>GCSE Statistics</b>	<b>Level 2 Higher Project</b>
<b>NVQ Level 2 Performing Engineering Operations</b>	<b>NVQ Level 2 Performing Manufacturing Operations</b>
Business Options: <b>BTEC Level 2 First Certificate Business</b> / GCSE Applied Business / <b>NVQ Business Improvement Techniques</b>	<b>Work or Vocationally Related Projects/ Social Activity in the Community</b>
BTEC Award Sport/ <b>GCSE Sport</b> and other extra curricula subjects	Options: Money and Finance, Sustainability, Home Cooking and <b>WorkSkills</b>

\*Bold italic type denotes total curriculum offer for this student or cohort

# Curriculum Mapping

**Y10 and Y11 COHORT 2 - approximately 50-60% year intake**

**Confident learners with a preference for practical hands on learning with aspirations to study a BTEC Engineering at Level 3 at the UTC and apply to study at Level 4 at the FE College or University**

## Student B

<b>Headline Measures</b> <b>5 GCSEs A*-C</b>
GCSE English
GCSE Maths
GCSE Additional Science
GCSE Double Award Engineering (counts as single subject)
GCSE Electronic Products

## Broad Curriculum Offer example

<b><i>GCSE Double Award Engineering</i></b> or <b><i>GCSE Double Award Manufacturing / BTEC Level 2 First Extended Certificate Engineering</i></b>	Humanities Options: GCSE History or study of subject e.g. Engineering / <b><i>GCSE Geography or study of environmental issues</i></b>
One or more: GCSE Resistant Materials <b><i>GCSE Electronic Products</i></b> GCSE Graphic Products	Languages Options: <b><i>GCSE German</i></b> or the study of German for business
Science Options: GCSE Science <b><i>GCSE Additional Science</i></b>	IT Options: <b><i>BTEC I&amp;CT</i></b> / GCSE ICT Single or Double Award / GCSE Computing Science
<b><i>GCSE Statistics</i></b>	<b><i>Level 2 Higher Project</i></b>
<b><i>NVQ Level 2 Performing Engineering Operations</i></b>	<b><i>NVQ Level 2 Performing Manufacturing Operations</i></b>
Business Options: <b><i>BTEC Award Business</i></b> / GCSE Applied Business / <b><i>NVQ Business Improvement Techniques</i></b>	<b><i>Work or Vocationally Related Projects/ Social Activity in the Community</i></b>
<b><i>BTEC Award Sport</i></b> / GCSE Sport and other extra curricula subjects	Options: Money and Finance, <b><i>Sustainability</i></b> , Home Cooking Skills and <b><i>WorkSkills</i></b>

\*Bold italic type denotes curriculum offer for this student or cohort

# Curriculum Mapping

**Y10 and Y11 COHORT 3 – approximately 20-25% year intake**  
**Learners with a preference for practical hands on learning with aspirations to study a BTEC Engineering at Level 3 and/or an Apprenticeship in conjunction with the UTC or FE College/ University and/or Employer. Post Level 3 aim is to enter the workforce or study Level 4 Higher Apprenticeship in FE / HE or with an Employer**

## Student C

<b>Headline Measures</b> <b>5 GCSEs A*-C</b>
GCSE English
GCSE Maths
GCSE Statistics
BTEC Award Principles of Science
BTEC Level 2 First Award Engineering

## Broad Curriculum Offer example

GCSE Double Award Engineering or GCSE Double Award Manufacturing / <b><i>BTEC Level 2 First Certificate Engineering</i></b>	Humanities Options: <b><i>GCSE History or study of subject e.g. Engineering</i></b> / GCSE Geography or study of environmental issues
One or more: <b><i>GCSE Resistant Materials</i></b> GCSE Electronic Products GCSE Graphic Products	Languages Options: GCSE German or the <b><i>study of German for business</i></b>
Science: GCSE Science and Additional Science <b><i>BTEC Award Principles of Science</i></b> <b><i>BTEC Award Application of Science</i></b>	IT Options: <b><i>BTEC I&amp;CT</i></b> / GCSE ICT Single or Double Award / GCSE Computing Science
<b><i>GCSE Statistics</i></b>	<b><i>Level 2 Higher Project</i></b>
<b><i>NVQ Level 2 Performing Engineering Operations</i></b>	<b><i>NVQ Level 2 Performing Manufacturing Operations</i></b>
Business Options: <b><i>BTEC Award Business</i></b> / GCSE Applied Business / <b><i>NVQ Business Improvement Techniques</i></b>	<b><i>Work or Vocationally Related Projects/ Social Activity in the Community</i></b>
<b><i>BTEC Award Sport</i></b> / GCSE Sport and other extra curricula subjects	Options: <b><i>Money and Finance</i></b> , Sustainability, <b><i>Home Cooking Skills</i></b> and <b><i>Workskills</i></b>

\*Bold italic type denotes total curriculum offer for this student or cohort

# Y12 and Y13 Engineering and related qualifications

## Broad Curriculum Offer example

<p>BTEC Level 3 Engineering (QCF):            Certificate            Subsidiary Diploma            90 Credit Diploma (half of Extended Diploma)            Diploma            Extended Diploma</p> <p>BTEC Level 3 (QCF) Diploma or Extended Diploma:            Aeronautical Engineering            Aircraft Maintenance            Applied Science            Blacksmithing and Metalwork            Electrical/Electronic Engineering            Enterprise and Entrepreneurship            Environmental Sustainability            IT            Manufacturing Engineering            Mechanical Engineering            Operations and Maintenance Engineering            Vehicle Technology</p>	<p>GCE Subjects:            GCE Applied Engineering            GCE Applied ICT            GCE Business / GCE Applied Business            GCE Economics            GCE Economics and Business            GCE Geography            GCE German            GCE Global Development            GCE Product Design</p>
Apprenticeships / NVQs Level 3 in Engineering	Level 3 Extended Project
GCE Maths	HNC / HND Units
GCE Physics	Workskills
GCE Chemistry	Work Experience or Vocationally related projects / Social Activity in the Community

\*See website for full range of Level 3 and Level 4 qualifications

## UTC Scenario /project driven curriculum

- Reinforcement of work ethos
- Understanding and practice of appropriate behaviours in the workplace
- Team building and team skills
- A 'knowing' and 'understanding' of what they will 'become'
- Confidence in their abilities to meet the demands of the UTC
- Clarity of future aspirations in relation to their performance and capabilities

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