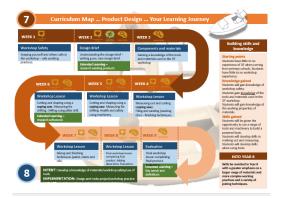
Embedding HPL into Design Technology



	What will HPL look like in this project					
HPL i	HPL in the workshop (practical lessons)					
	AUTOMATICITY	Blazers off and aprons on! Always wear eye protection when using machinery. Follow Health and Safety guidelines when in the workshop.				
RKING	RESILIENCE	You will find some tasks difficult when working in the workshop. You need to show resilience by not getting frustrated. You need to be able to manage your own time in order to complete your product. You need to develop the ability to work independently when in practical lessons.				
HARD WORKING	PRACTICE	The more you practise using tools and machinery the better you will get when working with them.				
Ē	PESSWEAKCE	You develop the ability to work for extended periods of time . You will get some things wrong – this will improve if you persevere .				
High Perfor Learnin Pathway Sch	ng ng	Participant Control Co				

	What will HPL look like in this project					
Understa	Understanding a design brief.					
ANALYSING	You will be analysing information given to you regarding your design brief. You will be noy only analysing the design brief but also responding to questions using the analysis you have undertaken.					
ENQUIRING	You will be asked research existing products which will enhance your subject knowledge. You will be asked to look for the positives and negatives in existing products. You will be able to explain you research to others.					
	You will be writing a design brief that is original in form and content. You will be exploring different solutions to problems.					
STRATEGY PLANNING	You will be choosing an appropriate strategy to solve your design context/brief.					
High Performance Learning Pathway School						

HPL in the Design Technology Curriculum

Our DT 4 step process

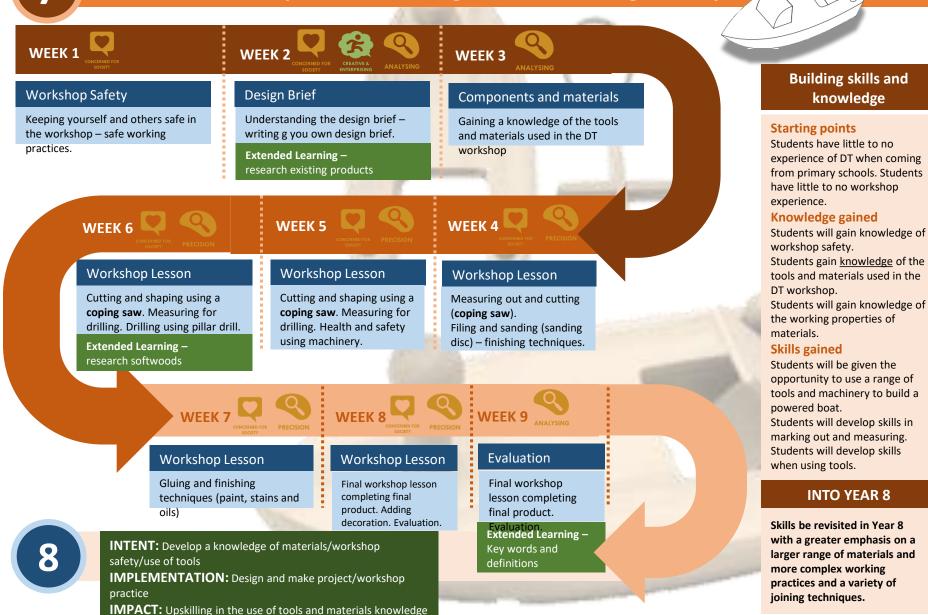
We looked at ways of ensuring HPL was embedded in the DT curriculum planning.

We added it to our curriculum sequences as well as adding INTENT IMPLENTATION and IMPACT.

We also added building knowledge and skills.

Ideal as a refresher when talking to 'visitors'.

Curriculum Map ... Product Design ... Your Learning Journey



What HPL in Design Technology looks like in lessons.

Lesson by Lesson

Slides are placed in PowerPoints at relevant places.

ACPs and VAAs are referenced explain how they will be used linking directly to DT.

Words specifically linked to the VAA and ACP grids are highlighted.

Examples below...

What will HPL look like in this project

HPL in the workshop (practical lessons)

	AUTOMATICITY	Blazers off and aprons on! Always wear eye protection when using machinery. Follow Health and Safety guidelines when in the workshop.
WORKING	RESILIENCE	You will find some tasks difficult when working in the workshop. You need to show resilience by not getting frustrated. You need to be able to manage your own time in order to complete your product. You need to develop the ability to work independently when in practical lessons.
HARD WO	PRACTICE	The more you practise using tools and machinery the better you will get when working with them.
	PERSEVERANCE	You develop the ability to work for extended periods of time . You will get some things wrong – this will improve if you persevere .





What will HPL look like in this project

Understanding a design brief.

ANALYSING	You will be analysing information given to you regarding your design brief. You will be noy only analysing the design brief but also responding to questions using the analysis you have undertaken.
ENQUIRING	You will be asked research existing products which will enhance your subject knowledge. You will be asked to look for the positives and negatives in existing products. You will be able to explain your research to others .
CREATIVE & ENTERPRISING	You will be writing a design brief that is original in form and content . You will be exploring different solutions to problems.
STRATEGY PLANNING	You will be choosing an appropriate strategy to solve your design context/brief.





Recording HPL in Design Technology

Student recording

HPL is referenced in lessons.

At prescribed parts in each unit of work student are asked to reflect on how HPL has been used up to this point.

This is then recorded in their DT project books.

		Stage 1	Stage 2	ttitudes and Attrib	Stage 4 tailor their presentation to meet the needs of their audience • pre-	Stage 5 sent to groups outside of the familiar and outside of the
	Collaborative	table is prind groups and pairs about themselves table is pairs and annull groups and prine in the feature them their deal dimonstrate their lateraing skills by asking the speaker guestions	dearly articulate their own cleas to the group dearly articulate their own cleas to the group dearly articulate of their and instrument these cleas in their own words using possible language begin to take on board suggestions from others in the group	present confidently to other groups in the class and classes further down the school about their work recognise there will old others in the indextrement of klass and staft modeling the skills of collaboration to younger subderts see and explain the advantages of collaborating	group progress that in different situations they need to take on or different roles to develop or build on the strengths of others will and get the job done of the strengths of others of the strengths of the strengths of others of the strengths of others of the strengths of the strengths of others of the strengths of the strength	nod webp others in the group as calaborators by putting em in new and unternillar situations and not just playing their strengths heat theory the strengths and opportune task based on others' strengths and opportune.
EMPATHETIC	Concerned for society	excountie instatemore transmissing and wrong device an averanises of the others are in the school kost community and how an option about change	seek to help oftens in the class, school and local community and withinfy participate in typop, scholars to be a seek to a scholar and advantate why change is reveal or any termination and advantate why change is reveal or any termination and advantate why change is reveal or any profestion in the community and suggest possible optimal to complete them.	 willigh participate in the community (both local and galaxie, listinitying reads and course of action to meet those needs controlizably work with others to meet those needs begins to have an understanding of human ingits devides a allonging sense of justice, deving on international weets 	debate these using evidence a clicits personal behaviour to fit belief systems and have a strong sense of their place in the world understand the relationship between the rights of the	take protoche and dheck action to help in the wider contrar My attempt characterizations, belief systems and excloses inhance oversit and act holpsacetify according to that own belief systems orachely initiate auto-based companys challenge injustice act site the need of present and Muse generation to accord
	Confident	 realise them are things they know and understand and plangs they do not with hey, achie their missives and with hem them 	listen to the ideas and opinions of others	believe in their knowledge, understanding and ideas eripy discussing their beliefs, ideas or behaviours with others deal with new challenges and situations.	 realise when they may need to change beliefs, ideas or behaviours based on new information or the arguments 	 ortically reflect on their knowledge, understanding and blass in the light of new experiences and interaction with others know when to modify their knowledge, understanding and blass based on their ortical reflection seek new challenges and situations
En		Single to develop their initiality runging don'nly, with guidthoot, questions and problems which here at them with guidthoot, plan to undertake research, and collect, store and organise information relevant to the research	 plan and carry out research unaided, and collect relevant information 	 Identify appropriate research steps and strategies, and begin to refere and modily methods of encary realise which information is useful as encary communicate stars and enternet version every communicate stars and enternet version every communicate stars and enternet version every to make connections between them or challenge assumptions and make evidence-based assertions 	 begin to feach others the skills of enquiry make informed and well-reasoned decisions and require evidence for others' assertions 	Independently identify quastions and problems, justify their interest in them, and critically consider whether they are worth adding and solving use connections from across the curriculum to develop their enguly, answering quastions that are of real value to society both in school and outside. doubts ordentia and elegant solutions to complexe
ente	rprising	explore different solutions to problems that are set for them are interested in the world around them produce paces of work that are original to them in form or content		argenment with untamiliar approaches or forms and decide on the right ones for the right circumstances develop a sense of lineir own personal style in the work they create	 dricese increasingly innovative approaches to soving problems and creating work. are able to adapt to a wide variety of purposes and audiences without sacrificing quality 	 problems orbit and surprising pieces of work of high guality that are fit for purpose
Open- minde	•	ann o contain ar booming aware that other people may have fifthern (dees and belefs and come from different adkgrounds	 recognise that other people may have different ideas and beliefs and are prepared to listen to frem may charge their mind based on the ideas and beliefs of others show an interest in people from other cultures and backgrounds 	 can take an objective view of different ideas and below becommon enceptive to different ideas and beliefs becommon enceptive to different ideas and beliefs will change their ideas should there be competing evidence to do so appreciate the benefit of knowing, and working with, people from other cultures 	 evaluate new information or the arguments of other and are willing to change belies, lease or behaviou based on their evaluation evaluate cultural prespectives by drawing on the vi of people from other cultures and backgrounds with forming opinions 	understanding and ideas and modify them on the basis of their critical reflection
Risk-tak	tak • talk talk way	as that things we do involve an element of risk- ing a douk known risks in everyday situations and is to approach those risks if they affect personal ity and wellbeing	 Weight Up positive and integrative rates in new satisfaces and suggest affirent solutions and approaches to those ansutors is based on this essenginght, contributing splotch new and basedown soundaria; seeing them as a chalorge to be faced. 	 try out new ideas in different situations, drawing on previous experience speculate on the outcomes of taking certain risks in unfamiliar situations 	 recognise that we cannot always predict the out of a situation – that some things in life are union approach unfamiliar studies positively, and with confidence and acceptance of the unknown 	wn situations, known and unknown
Practice	• rapear		practise resultify in order to improve understand the value of practice in improving performance respond to leadurack from others about next stops to improvement and how to improve	establish and relow practice schiadules sigk and respond to leadback on how to improve performance respond to goals set by others for improvements	take responsibility for practising independently a regularly jointly set goals for improvements monitor own performance and seek feedbackt ciphes	 set own goals and monitor progress towards there
erseverand	encoura	extended periods of time on a task with generat so that there may be obstacles to ther	importent and a stroke of the other ot	are set-motivated to work on extended projects identify distractions and manage them to minimise there effect see the long-term benefits of performing a task to completion	 independently plan an activity or project beyon is asked of them identify and use strategies for setting and mere personal targets in order to increase personal motivation 	eting • have enough self-avareness and confidence tr accept that some tasks cannot be completed
illience		· At the set of the set of the set	latin ways to manage their own time and work fowards personal targets they have set complete longer tasks with increasing independence, recognising (rustrations that inhibit performance	 show greater independence in setting personal ge and targets use time effectively and parsist with extended tast to completen, recognising strategies, overcoming frustration and distractions and seting the long-to benefits 	 employ appropriate strategies to complete t 	asks and • are deliberately unwilling to allow adversity to

		 consider different viewpoints on issues, events or problems 	assertions	
Creative an enterprising	9 Oro internet of in the	wave of finding their own approvers	 experiment with unfamiliar approaches or forms and decide on the right ones for the right circumstances develop a sense of their own personal style in the work they create 	 choose increation problems and are able to a audiences with the problems and the problems and the problems and the problems are able to be a set of the problems and the problems are able to be a set of the problems are a
Open- minded	are becoming aware that other people may have different ideas and beliefs and come from different backgrounds	 recognise that other people may have different ideas and beliefs and are prepared to listen to them may change their mind based on the ideas and beliefs of others show an interest in people from other cultures and backgrounds 	 can take an objective view of different ideas and beliefs become more receptive to different ideas and beliefs based on the argument of others will change their ideas should there be compelling evidence to do so appreciate the benefit of knowing, and working with, people from other cultures 	 evaluate ne and are will based on evaluate or of people forming or
Risk-taking	 realise that things we do involve an element of risk-taking talk about known risks in everyday situations and ways to approach those risks if they affect personal safety and wellbeing 	 weigh up positive and negative risks in new situations and suggest different solutions and approaches to those situations based on their assessment confidently approach new and unknown situations, seeing them as a challenge to be faced 	 try out new ideas in different situations, drawing on previous experience speculate on the outcomes of taking certain risks in unfamiliar situations 	 recognis of a situ approa confide
Practice	repeat work in order to improve	 practise regularly in order to improve understand the value of practice in improving performance respond to feedback from others about next steps to improvement and how to improve 	 establish and follow practice schedules seek and respond to feedback on how to improve performance respond to goals set by others for improvements 	 take m regula jointh moninother
Perseverance	 work for extended periods of time on a task with encouragement recognise that there may be obstacles to their progress 	 work for sustained periods of time and can see the benefits of doing so identify distractions and begin to recognise the effect these might have on their work 	 are self-motivated to work on extended projects identify distractions and manage them to minimise their effect see the long-term benefits of performing a task to completion 	• ider
esilience	 complete tasks with support, recognising some frustrations 	 learn ways to manage their own time and work towards personal targets they have set complete longer tasks with increasing independence, recognising frustrations that inhibit performance 	 show greater independence in setting personal g and targets use time effectively and persist with extended tas to completion, recognising strategies, overcomin frustration and distractions and seeing the long- benefits 	sks e

						High
			Is for the Advanced Co	gnitive Performance C	haracteristics (ACPs)	Perform
		Stage 1 • are aware of the shinking skills used to solve a problem	Stage 2 • are able to describe the thinking skills used to solve a problem	Stage 3	Stage 4	Stage 5
SING	Meta-cognition			are able to select appropriate thinking skills to solve a problem .		the full range of thinking skills fluently and comprehensively onventionally
META-THINKING	Self-regulation	recognise that making errors is part of learning	identify things that worked well and those that did not begin to suggest goals for improvement	are aware of own general strengths and weaknesses maka improvements to own practice and set future goals for improvement		ke insightful observations and comments to continually refine a n personal best
TA-7	Strategy-planning	g recognise it is possible to consciously select a given approach to solve a problem	are aware of the main approaches that could be deployed	choose an appropriate approach to solve a problem or address an issue	choose the most appropriate strategy and be able to justify the approach • U	se stralegy-planning idependently as a way to solve proble
ME	Intellectual confidence	begin to communicate own views based on experiences	emplain own views using examples and reasons	present and justify own views using a diverse range of evidence	evaluate the views of others and incorporate relevant evidence to construct ersuasive arguments including those they do not agree with	ynthesise a wide range of viewpoints and evidence to mak competing personal argument.
	Generalisation	recognise simple patterns or similarities through observations	use patternet, similarities and connections to make simple predictions	develop generalisations		understand the complexity of generalisations and apply the offerent situations with caution and justification
	Connection finding	be aware that different facts may be connected	make simple and obvious connections, but do not grasp their significance	make a number of connections, although miss the meta connections and the significance for the whole use prior knowledge to explain those firks	 transfer principles and ideas underlying one instance to another 	make connections not only within the given subject area, in and beyond subjects in inventive ways make novel, insightful and innovative connections which the reconceptualise
LINKING	'Big picture' thinking	begin to recognise that there are big ideas	recognise there are big ideas and hotstic concepts and begin to use them to make sense of things	 use big ideas and holistic concepts and make connections within and between them to make sense of experiences 	 start new learning by focusing on big questions and/or locate new learning within a bigger picture 	explore the complexities and uncertainties in big ideas a and accept they have limitations
LIA	Abstraction		conduct processes in the head as opposed to using concrete materials	 take ideas, issues, problems or events and apply them to theoretical situations 	 work with a range of ideas, issues, problems or events in order to explain abstract, theoretical situations or models 	evaluate a range of ideas, issues, problems or events, or them and apply them to complex imagined or theoretic
	Imagination	Torm plausible solutions to simple problems, by asking what it?	envisage and create solutions in the mind to solve problems	create novel solutions by drawing on prior knowledge	picture solutions that are plausible but not common, linking together extensive prior knowledge	 explore alternative or new plausible solutions using explore knowledge
	Seeing alternative perspectives	recognise that different people have different perspectives	consider different interpretations or views and distinguish between facts, beliefs and opinions are open to novelty	 weigh up the viewpoints of others, explain the influences that have shaped them, challenge or adopt different ideas appropriately 	 critically evaluate the validity of viewpoints or arguments and objectively judge the evidence on which they are based, synthesisting ideas where appropriate 	 recognise that alternative viewpoints can be equally valid a question assumptions
	Critical or logical thinking	das externatars given for sat, slampe questions begin to use information to explane lideas.	ask relevant questions and select and organise appropriate information from a range of sources to find assers and develop undestanding use selected information to explore ideas and make proposals	identify questions and begin to refine them to clarify and deepen understanding select and organise evidence to explore questions and lest hypotheses suggest answers based on evidence process and manipulate evidence and assess it for validity	prioritise questions to explore and develop relensit hypotheses judge the miskality, validity and imitations of exidence orbitcally reviaite offerent sources of evidence use evidence to challenge assumptions	ask perceptive and insightful questions and develop critically analyse and synthesise evidence and asse use robust evidence to develop competing new ide
P	recision	begin to use simple symbols, conventions, vocabulary and language for the domain	use simple symbols, conventions, vocabulary and language for the domain with some errors and omissions	use skills, symbols, conventions and vocabulary for the domain with few enrors or omissions	 use advanced skills, symbols, conventions and vocabulary effectively to reach strong outcomes 	 select appropriate skills and conventions and use outcomes
	implex and multi- op problem solving	• use a given approach to solve simple problems, ideas or tasks	are sware that complex tasks can be broken down and understand the scottingues for achieving this	satisf and use appropriate methodologies to solve more complex problems: explore more complex ideas or complete more complex tasks	 evaluate the effectiveness of different aproaches and identify a preferred personal repertoire 	 use a broad range of approaches effectively, see for particular problems
	-The shore I	are aware that there are rules in different domains ask 'what if?	recognise the rules and conventions of different domains and choose some rules to disregard or change	 understand the complex rules and conventions of different domains and choose some rules to modify, recognising some of the consequences. 	 imaginatively adapt and bend the rules of a domain for a specific purpose, outcome or consequence 	 use the rules flexibly, bending them where app interesting outcomes
		• be aware there are often different solutions to a problem	be willing to abandon one idea in favour of another on the basis of reason and evidence	 adopt new ideas easily in response to com/incing reason and evidence and recognise some consequences 	expect to look beyond first ideas and seek others in order to select a best fit	BS 10 Create Dest-In solutions
	nt thinking	brainstorm ideas, with help. In response to simple problems	Independently generate multiple solutions and ideas in response to more complex problems	 trequently propose to others solutions resulting from brainstorming ideas for complex problems, evidence or issues 	 routinety seek to explore a wide range of possibilities before posing a solution to complex problems, evidence or issues 	
		create a slight variation to accepted ideas	 create several new ideas to address a problem, seeing possibilities others have not seen 	create a range of new and unique modifications to address a problem or create an item	 create and model a range of new and unique ideas to address a problem recognising practical implications and conflicting demands 	 insightfully create and model innovative and
Origin Evoluti		create a new idea by building on existing ideas or diverting from them	create several new ideas to address a problem by building on existing ideas or diverting from them	 create a range of new deas to address a problem, recognising limitations and suggesting solutions by building on exating ideas or diverting from them choose a completely offlerent way to address the task 	 create and model a range of new ideas to address a task recognising practical implications and conflicting demands by building on existing ideas diverting from them 	 create and model innovative ideas – both o evaluate them by building on existing ideas
Bulakia	•	recal simple key facts, concepts and ideas relevant to the stage of earning with some support	recall more complex key facts, concepts and ideas relevant to the stage of learning and with increased independence show fluency in basic age related tasks so they can be done without thinking.	 Independently recall complex key facts, concepts and ideas relevant to the stope of learning exhibit hearry it an increasing range of key skills 	easily recall advanced key facts, concepts and ideas relevant to the stay learning acquire new rules and use them fluently	 effortlessly use key facts, concepts and is draw upon a range of skills without the n
Automal	licity		show index(s) instance equivalent endowing a constraint of the second seco	actively seek accuracy in work and understand its importance consistently complete work on time	achieve good levels of accuracy in work. plan work and pace speed needed to complete t - even with multi-sep tasks	strive for and achieve excellent levels of work rapidly without errors

HPL in Design Technology next Steps...

Future of HPL in DT

Central recording of ACPs VAAs met.

More independent use and recording of ACPs VAAs met.