Haunidae and Chalashuny Dr. and Tachnology (2020, 2021) agion of Chilla Dogion

	Hawridge and Cholesbury Progression of Skills- Design and Technology (2020-2021)								
	EYFS	Year One	Year Two	End of KS	Year Three	Year Four	Year Five	Year Six	End of KS
				expectations					expectations
Design	*Select appropriate resources  *Use gestures, talking and arrangements of materials and components to show design  * Use contexts set by the teacher and myself  *Use language of designing and making (join, build, shape, longer, shorter, heavier etc.)	* have own ideas  * explain what I want to do  *explain what my product is for, and how it will work  * use pictures and words to plan, begin to use models  * design a product for myself following design criteria  *research similar existing products	* have own ideas and plan what to do next  * explain what I want to do and describe how I may do it  * explain purpose of product, how it will work and how it will be suitable for the user  * describe design using pictures, words, models, diagrams, begin to use ICT  * design products for myself and others following design criteria  * choose best tools and materials, and explain choices  * use knowledge of existing products to produce ideas	*Design purposeful, functional, appealing products for themselves and other users based on design criteria  *Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology	*begin to research others' needs * show design meets a range of requirements * describe purpose of product * follow a given design criteria * have at least one idea about how to create product * create a plan which shows order, equipment and tools *describe design using an accurately labelled sketch and words * make design decisions *explain how product will work * make a prototype * begin to use computers to show design	* use research for design ideas * show design meets a range of requirements and is fit for purpose * begin to create own design criteria * have at least one idea about how to create product and suggest improvements for design. * produce a plan and explain it to others * say how realistic plan is. * include an annotated sketch * make and explain design decisions considering availability of resources * explain how product will work * make a prototype * begin to use computers to show design.	*use internet and questionnaires for research and design ideas  *take a user's view into account when designing  * begin to consider needs/wants of individuals/groups when designing and ensure product is fit for purpose  *create own design criteria  * have a range of ideas  *produce a logical, realistic plan and explain it to others.  *use cross-sectional planning and annotated sketches  * make design decisions considering time and resources.  *clearly explain how parts of product will work.  *model and refine design ideas by making prototypes and using pattern pieces.  *use computer-aided designs	* draw on market research to inform design  * use research of user's individual needs, wants, requirements for design  * identify features of design that will appeal to the intended user  * create own design criteria and specification  * come up with innovative design ideas  *follow and refine a logical plan.  *use annotated sketches, cross-sectional planning and exploded diagrams  * make design decisions, considering, resources and cost  * clearly explain how parts of design will work, and how they are fit for purpose  * independently model and refine design ideas by making prototypes and using pattern pieces  * use computer-aided designs	*Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups  *Generate, develop, model and communicate their ideas through discussion, annotated sketches, crosssectional and exploded diagrams, prototypes, pattern pieces and computeraided design
Make	*Construct with a purpose, using a variety of resources *Use simple tools and techniques *Build / construct with a wide range of objects *Select tools & techniques to shape, assemble and join *Replicate structures with materials / components *Discuss how to make an activity safe and hygienic *Record experiences by drawing, writing, voice recording *Understand different media can be combined for a purpose	*explain what I'm making and why *consider what I need to do next *select tools/equipment to cut, shape, join, finish and explain choices *measure, mark out, cut and shape, with support *choose suitable materials and explain choices *try to use finishing techniques to make product look good *work in a safe and hygienic manner	*explain what I am making and why it fits the purpose  *make suggestions as to what I need to do next. *join materials/components together in different ways  *measure, mark out, cut and shape materials and components, with support. *describe which tools I'm using and why  *choose suitable materials and explain choices depending on characteristics. *use finishing techniques to make product look good  *work safely and hygienically	*Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]  *Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	*select suitable tools/equipment, explain choices; begin to use them accurately * select appropriate materials, fit for purpose. * work through plan in order *consider how good product will be * begin to measure, mark out, cut and shape materials/components with some accuracy * begin to assemble, join and combine materials and components with some accuracy * begin to apply a range of finishing techniques with some accuracy	* select suitable tools and equipment, explain choices in relation to required techniques and use accurately *select appropriate materials, fit for purpose; explain choices * work through plan in order. * realise if product is going to be good quality * measure, mark out, cut and shape materials/components with some accuracy *assemble, join and combine materials and components with some accuracy *apply a range of finishing techniques with some accuracy	* use selected tools/equipment with good level of precision  * produce suitable lists of tools, equipment/materials needed  *select appropriate materials, fit for purpose; explain choices, considering functionality  * create and follow detailed step- by-step plan  * explain how product will appeal to an audience  * mainly accurately measure, mark out, cut and shape materials/components  *mainly accurately assemble, join and combine materials/components  * mainly accurately apply a range of finishing techniques  * use techniques that involve a small number of steps  * begin to be resourceful with practical problems	* use selected tools and equipment precisely *produce suitable lists of tools, equipment, materials needed, considering constraints * select appropriate materials, fit for purpose; explain choices, considering functionality and aesthetics * create, follow, and adapt detailed step-by-step plans * explain how product will appeal to audience; make changes to improve quality * accurately measure, mark out, cut and shape materials/components * accurately assemble, join and combine materials/components * accurately apply a range of finishing techniques * use techniques that involve a number of steps * be resourceful with practical problems	*Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately  *Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

## Hawridge and Cholesbury Progression of Skills- Design and Technology (2020-2021)

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o de la companya de l	*Adapt work if necessary *Dismantle, examine, talk about existing objects/structures *Consider and manage some risks *Practise some appropriate safety measures independently *Talk about how things work *Look at similarities and differences between existing objects / materials / tools *Show an interest in technological toys *Describe textures	*talk about my work, linking it to what I was asked to do  * talk about existing products considering: use, materials, how they work, audience, where they might be used  *talk about existing products, and say what is and isn't good  * talk about things that other people have made  *begin to talk about what could make product better	* describe what went well, thinking about design criteria * talk about existing products considering: use, materials, how they work, audience, where they might be used; express personal opinion *evaluate how good existing products are *talk about what I would do differently if I were to do it again and why	*Explore and evaluate a range of existing products  *Evaluate their ideas and products against design criteria	* look at design criteria while designing and making *use design criteria to evaluate finished product * say what I would change to make design better *begin to evaluate existing products, considering: how well they have been made, materials, whether they work, how they have been made, fit for purpose * begin to understand by whom, when and where products were designed * learn about some inventors/designers/engineers/chefs/manufacturers of ground-breaking products	*refer to design criteria while designing and making *use criteria to evaluate product * begin to explain how I could improve original design *evaluate existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose * discuss by whom, when and where products were designed * research whether products can be recycled or reused  * know about some inventors/designers/engineers/chefs/manufacturers of ground-breaking products	*evaluate quality of design while designing and making *evaluate ideas and finished product against specification, considering purpose and appearance. *test and evaluate final product * evaluate and discuss existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose * begin to evaluate how much products cost to make and how innovative they are  *research how sustainable materials are  *talk about some key inventors/designers/ engineers/ chefs/manufacturers of ground-breaking products	*evaluate quality of design while designing and making; is it fit for purpose?  * keep checking design is best it can be.  *evaluate ideas and finished product against specification, stating if it's fit for purpose  *test and evaluate final product; explain what would improve it and the effect different resources may have had  *do thorough evaluations of existing products considering: how well they've been made, materials, whether they work, how they've been made, fit for purpose  *evaluate how much products cost to make and how innovative they are  *research and discuss how sustainable materials are  *consider the impact of products beyond their intended purpose  *discuss some key	*Investigate and analyse a range of existing products.  *Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.  *Understand how key events and individuals in design and technology have helped shape the world
Evaluate								inventors/designers/ engineers/ chefs/manufacturers of ground- breaking products	
Technical knowledge – Materials/structures		*begin to measure and join materials, with some support *describe differences in materials *suggest ways to make material/product stronger	*measure materials *describe some different characteristics of materials *join materials in different ways *use joining, rolling or folding to make it stronger *use own ideas to try to make product stronger	*Build structures, exploring how they can be made stronger, stiffer and more stable	*use appropriate materials  *work accurately to make cuts and holes  * join materials  *begin to make strong structures	*measure carefully to avoid mistakes *attempt to make product strong *continue working on product even if original didn't work *make a strong, stiff structure	*select materials carefully, considering intended use of product and appearance *explain how product meets design criteria *measure accurately enough to ensure precision *ensure product is strong and fit for purpose *begin to reinforce and strengthen a 3D frame	*select materials carefully, considering intended use of the product, the aesthetics and functionality.  *explain how product meets design criteria  * reinforce and strengthen a 3D frame	*Apply their understanding of how to strengthen, stiffen and reinforce more complex structures
Technical knowledge - Mechanisms		*begin to use levers or slides	*use levers or slides *begin to understand how to use wheels and axles	*Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.	*select appropriate tools / techniques *alter product after checking, to make it better *begin to try new/different ideas *use simple lever and linkages to create movement	*select most appropriate tools / techniques *explain alterations to product after checking it *grow in confidence about trying new / different ideas. *use levers and linkages to create movement *use pneumatics to create movement	*refine product after testing *grow in confidence about trying new / different ideas *begin to use cams, pulleys or gears to create movement	*refine product after testing, considering aesthetics, functionality and purpose *incorporate hydraulics and pneumatics *be confident to try new / different ideas *use cams, pulleys and gears to create movement	*Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
Technical knowledge - Textiles		*measure, cut and join textiles to make a product, with some support *choose suitable textiles	*measure textiles *join textiles together to make a product, and explain how I did it *carefully cut textiles to produce accurate pieces *explain choices of textile *understand that a 3D textile structure can be made from two identical fabric shapes.		*join different textiles in different ways *choose textiles considering appearance and functionality *begin to understand that a simple fabric shape can be used to make a 3D textiles project	*think about user when choosing textiles *think about how to make product strong * begin to devise a template *explain how to join things in a different way *understand that a simple fabric shape can be used to make a 3D textiles project	*think about user and aesthetics when choosing textiles *use own template * think about how to make product strong and look better *think of a range of ways to join things *begin to understand that a single 3D textiles project can be made from a combination of fabric shapes.	*think about user's wants/needs and aesthetics when choosing textiles *make product attractive and strong *make a prototype *use a range of joining techniques *think about how product might be sold *think carefully about what would improve product *understand that a single 3D textiles project can be made from a combination of fabric shapes.	

## Hawridge and Cholesbury Progression of Skills- Design and Technology (2020-2021)

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Technical knowledge – Food and nutrition	*Begin to understand some food preparation tools, techniques and processes  *Practise stirring, mixing, pouring, blending  *Discuss how to make an activity safe and hygienic  *Discuss use of senses  *Understand need for variety in food  *Begin to understand that eating well contributes to good health	*describe textures *wash hands & clean surfaces *think of interesting ways to decorate food *say where some foods come from, (i.e. plant or animal) *describe differences between some food groups (i.e. sweet, vegetable etc.) *discuss how fruit and vegetables are healthy *cut, peel and grate safely, with support	*explain hygiene and keep a hygienic kitchen  *describe properties of ingredients and importance of varied diet  *say where food comes from (animal, underground etc.)  *describe how food is farmed, home-grown, caught  *draw eat well plate; explain there are groups of food  *describe "five a day"  *cut, peel and grate with increasing confidence	*Use the basic principles of a healthy and varied diet to prepare dishes  *Understand where food comes from.	*carefully select ingredients *use equipment safely *make product look attractive *think about how to grow plants to use in cooking *begin to understand food comes from UK and wider world *describe how healthy diet= variety/balance of food/drinks *explain how food and drink are needed for active/healthy bodies. *prepare and cook some dishes safely and hygienically *grow in confidence using some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking	*explain how to be safe/hygienic *think about presenting product in interesting/ attractive ways *understand ingredients can be fresh, pre-cooked or processed *begin to understand about food being grown, reared or caught in the UK or wider world *describe eat well plate and how a healthy diet=variety / balance of food and drinks *explain importance of food and drink for active, healthy bodies *prepare and cook some dishes safely and hygienically  *use some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking	*explain how to be safe / hygienic and follow own guidelines *present product well - interesting, attractive, fit for purpose *begin to understand seasonality of foods *understand food can be grown, reared or caught in the UK and the wider world *describe how recipes can be adapted to change appearance, taste, texture, aroma *explain how there are different substances in food / drink needed for health *prepare and cook some savoury dishes safely and hygienically including, where appropriate, use of heat source  * use range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.	*understand a recipe can be adapted by adding / substituting ingredients *explain seasonality of foods *learn about food processing methods *name some types of food that are grown, reared or caught in the UK or wider world *adapt recipes to change appearance, taste, texture or aroma. *describe some of the different substances in food and drink, and how they can affect health *prepare and cook a variety of savoury dishes safely and hygienically including, where appropriate, the use of heat source.  *use a range of techniques confidently such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.	*Understand and apply the principles of a healthy and varied diet  *Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques  *Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.		
Technical knowledge -					*use simple circuit in product *learn about how to program a computer to control product.	*use number of components in circuit *program a computer to control product	*incorporate switch into product *confidently use number of components in circuit *begin to be able to program a computer to monitor changes in environment and control product	*use different types of circuit in product  * think of ways in which adding a circuit would improve product  * program a computer to monitor changes in environment and control product	*Understand and use electrical systems in their products [for example, series circuits		