Holly Park Progression in DT Upper KS2

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| **Developing, Planning and Communicating Ideas** | | | **Evaluating** | |
| Investigateproducts/imagestocollectideas  •Sketchandmodelalternativeideas  •Developoneideaindepth  •Combinemodellinganddrawingtorefineideas  •Planthesequenceofworkusingastoryboard  •Recordideasusingannotateddiagrams  •Usemodels,kitsanddrawingstohelpformulatedesignideas  •Makeprototypes  •Usefoundinformationtoinformdecisions  •Useacomputertomodelideas  •Drawplanswhichcanberead/followedbysomeoneelse  •Giveareportusingcorrecttechnicalvocabulary | | | Usethedesigncriteriatoinformtheirdecisionsaboutwaystoproceed •Justifytheirdecisionsaboutmaterialsandmethodsofconstruction •Reflectontheirworkusingdesigncriteriastatinghowwellthedesignfitsthe needsoftheuser •Identifywhatdoesanddoesnotworkintheproduct. •Makesuggestionsashowtheirdesigncouldbeimproved | |
| Materials and Components– Knowledge and Understanding | | | | |
| **Sheet Materials (Mechanisms)** | **Construction** | **Textiles** | | **Food** |
| Cutslots  •Cutaccuratelyandsafelytoamarkedline •Joinandcombingmaterialswith temporary,fixedormovingjoinings •Usecraftknife,cuttingmatandsafety rulerunderonetoonesupervisionif Appropriate •Chooseanappropriatesheetmaterialfor thepurpose | Usebradawltomarkholepositions •Usehanddrilltodrilltightandloosefit holes •Cutstripwood,dowel,squaresection woodaccuratelyto1mm •Joinmaterialsusingappropriatemethods •Incorporatemotorandaswitchintoa model •ControlamodelusinganICTcontrol programme •Useacamtomakeanupanddown mechanism. •Buildframeworksusingarangeof materialse.g.wood,cardcorrugated plasticto supportmechanisms •Usegluegunwithclosesupervision | Create3Dproductsusingpatternpieces andseamallowance  •Understandpatternlayout •Decoratetextilesappropriatelyoften beforejoiningcomponents  •Pin andtackfabricpiecestogether •Joinfabricsusingoversewing,back stitch,blanketstitchormachinestitching (closersupervision) •Combinefabricstocreatemoreuseful properties  •Makequalityproducts | | Preparefoodproductstakinginto accountthepropertiesofingredientsand sensorycharacteristics •Selectandpreparefoodsforaparticular purpose •Tastearangeofingredients,fooditems todevelopasensoryfoodvocabularyfor usewhendesigning. •Weighandmeasureusingscales •Cutandshapeingredientsusing appropriatetoolsandequipmente.g. grating •Joinandcombinefoodingredients appropriatelye.g.beating,rubbingin •Decorateappropriately •Worksafelyandhygienically •Showawarenessofahealthydietfrom an understandingofabalanceddiet |