DE Learning Pathway

Digital Thermometer

BOURNE GRAMMAR SCHOOL

DECLARATIVE KNOWLEDGE I know			PROCEDURAL KNOWLEDGE I can do		
D1	That before building a product I should establish some design criteria i.e. what it must do to be successful	☐	P1	Independently build circuits on Circuit Wizard using analogue inputs.	☐
D2	How to research existing products can judge them against a known set of criteria	☐	P2	Independently build flowcharts on circuit wizard to response to changes in temperature levels	☐
D3	That a servo motor can be set to move to a specific angle.	☐	P3	With support, build complex PCBs on Circuit Wizard	☐
D4	That a thermistor is used in an electronic system to measure temperature.	☐	P4	Independently solder together a neat working PCB, using the identified components.	☐
D5	Evaluations will help to improve on future developments of contextual challenges.	☐	P5	Test my PCB using a download cable and add my own programs to the microcontroller	☐
D6			P6	With limited support, write an in-depth flowchart which uses variables and compare decisions to responded to changes in temperature levels.	☐
D7			P7	Independently use progression over time, independently evaluate the quality of the product, related research and design tasks.	☐
D8			P8	Independently identify targets for improvement in future products.	☐