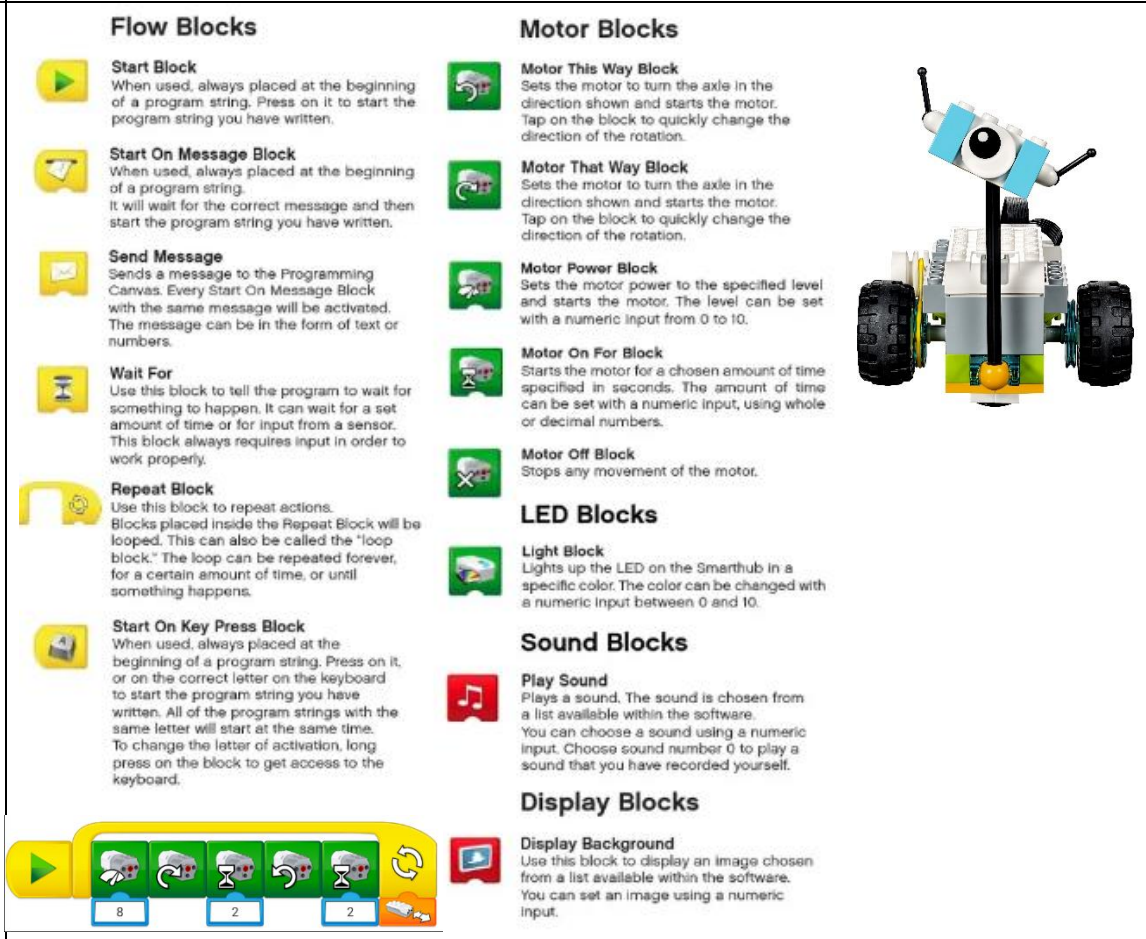
Leintwardine Endowed CE Primary School Learning Journey Key

'Letting Our Light Shine'

SUBJECT : D&T	YEAR : A	TERM :Summer 2	YEAR GROUPS : 3/4

Key Question: How can I program something physical?

Question	Vocabulary to Use	Information which will help me	Can I….?
Can I explain how computers and computer programs are used in different products? Can I develop, model and communicate ideas for an embedded system which uses a motor and a motion sensor and then make and program? Can I improve my model by adding and programming other sensors and hardware? Can I develop ideas for a product, make a prototype model and start to write programs to monitor and control them? Can evaluate my design and think of ways I can improve it?	Computer program, embedded system, monitor, control, program, prototype, model, computer-aided designs, evaluate, hardware, trouble shoot, bug		> communicate and develop their ideas by discussing, annotating diagrams and writing instructions? > begin to explain how embedded systems monitor and control products? > explain how computer scientists have helped shape the world? > develop prototypes of a computer-controlled electrical system? > incorporate one or more different electrical components in my system? > develop a design brief for a product? > develop my ideas for my product through discussion and annotated sketches? > incorporate electrical systems in my product design? > suggest ways in which a given product idea might be developed and improved? > debug a defective algorithm for a given product idea? > develop and debug my own computer controlled product ideas? > suggest ways in which models can better communicate ideas than written/verbal descriptions alone? > make prototype models to communicate their ideas? > control my prototypes using electronic components and computers? > explain ways in which I debugged and improved my programs for controlling products? > identify ways in which my DT and programming skills have developed, and ways in which I could further develop my learning?