



Subject	Year	Term
STEM	8	3
Topic		
Blokart Racing		
Content (Intent)		
Prior Learning (Topic) Canal Project		
- Year 7 STEM experience In KS2 students have learned: - about the wider world in general. - to interpret and present data using bar charts and tables. - to interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. - to develop creative skills through modelling. - basic scientific formulas and facts.		
Future Learning (Topic) N/A		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
Students will investigate types of renewable energy. They will take part in an enterprise challenge where they will use the 4 STEM subjects to design a model of a wind-powered cart. They will calculate the cost of creating their cart within the constraints of a budget and will produce a detailed poster of their cart highlighting the design, the materials used and the reasons these materials were chosen. Students will race their carts and will gather and analyse class results to determine which features resulted in the most effective design.	Graph work completed in class will be assessed through a mixture of self-assessment against success criteria, peer-assessment and teacher feedback. There are many built-in opportunities for graph work to be assessed throughout the STEM curriculum.	
	Students will ultimately present their findings, and the teacher will give valuable feedback to students to prepare them for this. Models will be assessed for efficiency.	
How can parents help at home?		
Students will be given homework tasks to produce based on specific STEM subjects and whole topic. Provide students with resources to allow them to research STEM careers and opportunities. Provide resources for modelling at home.		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
Read Renewable energy videos on YouTube Blokart racing information on blokart.com	Vocabulary Lists Renewable Energy Budget Prototype	Materials Efficiency