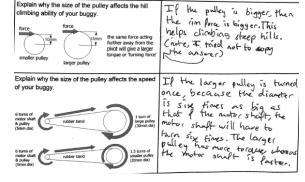
Year 6

Year 6 had the challenge of researching and designing moving cars. Children were asked to look at what is currently on the market as inspiration for shell designs, and considered materials logos for their cars. They had to show understanding of scientific circuits which would ensure a car could move using a motor and represent this as a diagram using the correct symbols. They also had to consider pitfalls that may occur and how to overcome them.

Paper Prototype Model

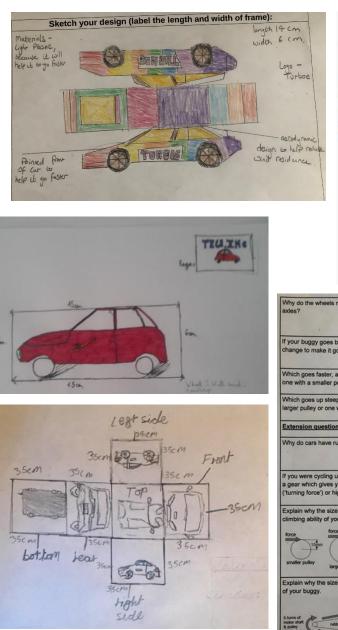




THE SLICER Tech Spece

Adory Shitch, Batterie.	Why do the wheels need to be a tight fit on the arden?	So they divis roll one.
on syllicity of a	If your buggy goos backwards what can you change to make it go forwards?	Eler Motor.
- H	Which goes faster, a truggy with a larger polley or (ne with a smaller polley?	Smaller,
8/ -such	Which goes up sleeper slopes, a buggy with a larger pulley or one with a smaller pulley?	Larger.
(m)	Extension questions	
	Why do cars have rubber tyres?	To stip and the real
Conductor,	If you were cycling up a slowp hill would you choose a plan which glues you low speed and high turgus	Low speed and kich
I sides a	("turning force") or high speed and low torque?	Cargo d.
In Could aver heat.	Explain why the size of the pulsey affects the hill climiting ability of your buggy.	The ligger the pully the test the blocks men- but part puper.
It will over breet.	under paler under paler	
<u>0</u>	Explain why the size of the pulley affects the speed of your beggy.	The bigger the putty the loss speed but man
Rullrying		
So it cap for smoothly	ECTOR	
	Containe, Containe,	$\begin{array}{c} \operatorname{Adder}_{1} \left(\operatorname{bard}_{k}, \operatorname{Bard}_$

Year 6 had to use their knowledge about belt and pulley systems from their work in Year 5 when they made moving fairground rides.



My car model



Car colour: Diverturguoise

Tour: Runc, Pourse Seitners, Junior hackness and nits Bandpaper Law net temperature gue gen Shape of car: My Logo:



Why do the wheels need to be a light fit on the axies?	Its won't go otherwise, and the wheels will come off
If your buggy goes backwards what can you change to make it go forwards?	The motor needs to go the other way. Change the wird
Which goes faster, a buggy with a larger pulley or one with a smaller pulley?	A buggy with a snaller Pully.
Which goes up steeper slopes, a buggy with a larger pulley or one with a smaller pulley?	Abaggy with a cager pulle
Extension questions	
Why do cars have rubber tyres?	They keep the car on the road, by Shapping it slifting
If you were cycling up a steep hill would you choose a gear which gives you low speed and high torque ('turning force') or high speed and low torque?	High speed and high torque
Explain why the size of the pulley affects the hill climbing ability of your buggy.	Is the Pulley 5 biggs then it can give gatter some to be weeds with help the weeks overcome the sonce of growity going up a hill.
Explain why the size of the pulley affects the speed of your buggy.	A smaller rulley gosegoes
S fame of a paker (Crem da)	lager fulley compared to a the fulley on the rolor.
6 tunns of notor shat Creme day Creme day	