To kick off our science lessons in year 5, we have been learning all about forces! The aim of our science lessons were to explore air/water resistance, discover how we measure force and to delve deep into levers, pulleys and gears as forms of mechanisms.

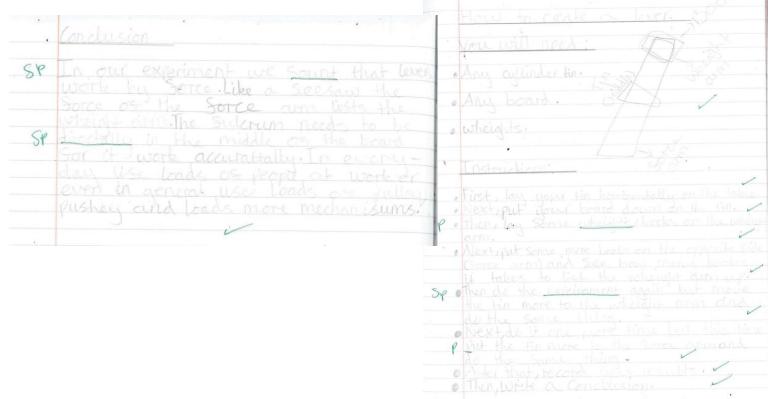
In our first lesson, we explored how objects fall. We settled the debate between Galileo and Aristotle by investigating the effects of air resistance and the mass of an object. We learnt that gravity allows objects to fall through the air and that air resistance is what slows those objects down.

Paper	Time taken in seconds	Galileo was correct because I know that air resistance
A4	1.4 0.831.421.49 1.5	helps the dojects to slow down when travelling through the air. Gravity puspes down and long objects go goster than yound objects.
	1.01 0.74 0.71 0.65 0.99	
	0.48 0.84 0.66 0.4 0.3	What is key: Is air resistance did not exist Do that you would With the floor really band.
	0.5 0.58 0.49 0.58 0.45	

In our next lesson, we measured the effects of water resistance. We learnt that similar to air resistance, water resistance allows objects to slow down when travelling through the water. To test this theory, we made shapes out of clay and tested which one would be best to allow a speedboat to travel quickly through water.

-venthing water Pernifo busines us up. P

In our third lesson, we began to explore mechanisms. We started by exploring levers. We set up an investigation to demonstrate how levers work and then wrote up our conclusions and instructions.



In our final lesson, we explored pulleys and gears to end our forces unit. We learnt that gears make some things easier to do by changing the force needed to make something move. We created our own gears to test this theory.

