

Forces



Physics

Written (W) report, experiment, letter etc. **Discussion (D)** Summary of learning. **Practical (P)** with photo and summary.

<u>National curriculum objective</u>	<u>Date completed</u>	<u>Activities</u>
➤ <u>Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.</u>		
➤ <u>Identify the effect of air resistance, water resistance and friction, that act between moving surfaces.</u>		
➤ <u>Recognise that some mechanisms, including lever, pulleys, and gears, allow a smaller force to have a greater effect.</u>		

Key Vocabulary (topic words must be spelt correctly throughout topic)

gravity	air resistance	water resistance	friction
levers	pulleys	gears	push
force meter	Newton's	Isaac Newton	force
pull	paper spinner	fair testing	prediction
stop	speed up	slow down	change direction
change shape	magnetic	poles	attract
repel			

Glossary of key terms you want to remember

Levers	
Friction	
Force	
Gears	

Questions that you need to be able to answer by the end of the topic

- What are forces?
- What do forces cause to happen?
- What is meant by unsupported object?
 - What is gravity?
- How does gravity act between the Earth and an object?
 - What is air resistance?
 - What is water resistance?
 - What is friction?
- How do surfaces change the forces?
 - What is a mechanism?
- How is a smaller force made to have a greater effect using levers, pulleys and gear

