Oughterside Foundation School - Science

Topic: Introduction of Forces (non-statutory)

What should I already know?

- The shape of some materials can be changed when they are stretched, twisted, bent and squashed.
- Know how different toys move.

Vocabulary					
bendy	an object that bends easily into a curved shape				
force	the pulling or pushing effect that something has on something else				
position	The position of someone or something is the place where they are in relation to other things				
pull	When you pull something, you hold it firmly and use force in order to move it towards you or away from its previous position				
push	When you push something, you use force to make it move away from you or away from its previous position				
squash	pressed or crushed with such force that something loses its shape				
stretchy	slightly elastic				
twist	turn something to make a spiral shape				

Investigate!

- Observe how different objects move when they are pushed or pulled.
- Make a list of every day activities that involve pushing or pulling objects (e.g. pulling a drawer open or pushing a pram.)
- Investigate the forces of pushing and pulling in PE.
- Observe how different toys move (e.g tricycles, water wheels, pull along toys).
- Draw diagrams to show how objects move when a force is applied to it. Use arrows to show the direction of the movement.
- Explain how the strength of the force determines how fast or how far something moves.

Year: 2 **Strand: Physics** What will I know by the end of the unit? How do • Objects move when they are objects pushed, pulled or twisted. These move? are all forces. • A push or pull can move an object start to move, or stop it from moving. • A **push** or **pull** can make an object speed up or slow down. • A **push** or **pull** can make an object change direction. • A push can squash some materials, and a pull can stretch some materials. What are examples of pulling forces? rowing a boat tug of war archery pulling a sledge opening a drawer slingshot What are examples of pushing forces? playing hockey running playing tennis pushing a door closed pushing a pram playing piano

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Question 1: Pushes and pulls are examples of	Start of unit:	End of unit:	Question 3: If you push play dough, the play dough will be	Start of unit:	End of unit:		
forces			squashed				
how to use all toys			stretched				
Question 2: The harder the force, the and an object will	ne and		bent				
move. Tick the two words that can go in the gaps.	unit:	End of unit:	Question 4: If you pull play dough, the play dough will be	Start of unit:	End of unit:		
further			squashed				
nearer							
faster			stretched				
slower			bent				

