ROCKETS

Bring

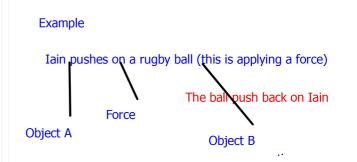
- Fizzing tablets- fizzing vitamins, superdrugs cheapest paracetamol
- Sports bottle
- Washing up liquid
- Tesco's cheapest coke/lemonade (diet is best as no sugar)
- Mentoes (blue not the coated ones)
- EFFERVESCENT
- 1p or 5p coin
- 1 sheet of A4 card

Rockets work because of NEWTON'S THIRD LAW

For every action there is an equal but opposite reaction

or
If A exerts a force on B then B exerts an equal but opposite force on A

Think of situations where one force acts on another



Rockets obey Newtons 3rd Lawwatch this example Here the recoil or reaction force is used to reload the gun

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Here is another example of Newtons 3rd Law. Often
the first time poeple use a shot gun they dislocate
their arm as they are not ready for the reaction
force or recoil

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This rocket is on a different scale. Try to work out what the two forces are

\LCKA-HD1\ALL Classes\$\S2 Physics\S2 Physics\SPACE TOPIC\ROCKETS\4 Maxi Water Rocket.mpg

In John Tickles Maxi water rocket

The water is PUSHED out by the BOTTLE

The WATER pushes back on the BOTTLE

The water is pushed DOWNWARDS by the bottle

The bottle is pushed UPWARDS by the water

But the Japanese take this to a new level DO NOT TRY THIS AT HOME OR AT A FRIENDS HOUSE!

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These are the rockets we can make if you bring the fizzing tablets!



Two twins lets call them Ben and Oliver have a fight!

If Ben slaps Oliver with his hand on his face

Oliver's face pushes back on Ben's hand with an equal force

Don't forget the stuff on Wednesday and hope for nice weather. I am NOT going out in weather like this!