

"Feel the force: What would life be like without them? (D&T)"



Vocabulary

coaxial gears	exploded diagram	gear	prototype	pulley	ratio	teeth
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Gears on the same axle .	Shows how the separate parts fit together.	A rotating part of a machine.	Early sample model of a product	Small, fixed wheel or a group of wheels with a rope or chain that is used to lift.	The relationship between two or more things (usually quantity, amount, or size).	The grooves that interlock.

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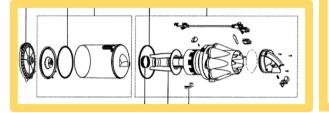
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Important People

James Dyson (1947 - now)



After five years and 5,127 prototypes later, he invented the world's first bagless vacuum cleaner.



Big Ws: Gears

Gears come in different sizes and have different amounts of teeth.



- They fit together on an axle to create a gear train.
- When a larger gear is connected to a smaller gear, the larger gear turns slower whereas the smaller gear turns faster and with a greater force. The gears also turn in different directions.

Big Ws: Pulleys

- Looping the rope over more wheels increases the upward force.
- Using two wheels means you can lift something twice as heavy using the same force.





