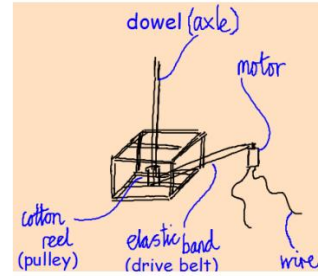


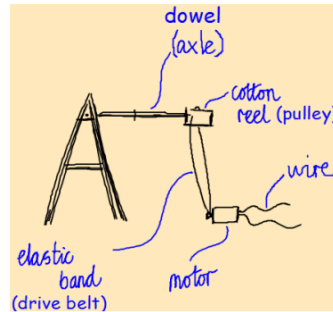
Year 5 & 6 Design and Technology - Fairground rides Cycle B Aut 2

Key vocabulary	
Carousel	Comes from the Italian garosello and Spanish carousella, which roughly translate to “little battle” – and this word was used by knights to describe a game played by Turkish and Arabian horsemen in the 12th Century.
Pulley	A wheel on a axle or shaft that is designed to support movement and change of direction.
Motor	A machine that supplies motive power for a vehicle or other device. Framework An essential supporting structure of a building, vehicle or object.
Driver	A part in a mechanism that receives power directly and transmits motion to the other parts.
Program	A series of coded instructions to control the operation of a computer or object.
Traditional	Existing in or as part of a tradition; long established
Dowel	A dowel is a cylindrical rod, usually made from wood, plastic, or metal.

To make a carousel move



To make a Ferris wheel move



Key Knowledge/ skills	
Design	<ul style="list-style-type: none"> ➤ I can come up with a range of ideas after I have collected information. ➤ I can use cross sectional planning to show my design. ➤ I can produce a detailed step by step plan. ➤ I can check that my design is the best it can be
Make	<ul style="list-style-type: none"> ➤ I can use a range of tools and equipment expertly. ➤ I can think about the functionality of my work. ➤ I can measure accurately enough to ensure that everything is precise. ➤ I can ensure that a product is strong and fit for purpose. ➤ I can join materials in different ways, and choose the most suitable one for my project.
Evaluate	<ul style="list-style-type: none"> ➤ I can explain how my product will appeal to the audience. ➤ I can test and evaluate the final product. ➤ I can practice my evaluation skills by evaluating existing products. ➤ I can say how a product meets the design brief. ➤ I can check whether anything could be improved and state why

Key points / information

Prior learning: Think of everyday objects that use electrical motors to cause rotation.

An electrical circuit for the fireground is made up of a cell (battery), wires, motor/light and a switch.

Key points:

Rotation means the circular motion of an object around a centre point and create movement. Pulley and belt systems can be used to transfer movement to help the fairground ride move round and round and up and down.

Key people:

Thomas Bradshaw invented the mechanical steam powered carousel in 1861.

John Wardley is a modern day designer of fairground rides and is famous for designing rides for Alton Towers, Thorpe Park and Chessington World of Adventure theme parks.

