



wing



glider



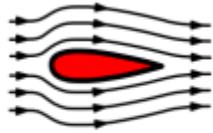
biplane



triplane



hot air
balloon



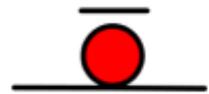
aerodynamics



History: The History of Flight



helicopter



stability



Wright
brothers



air current



design



engineering



aircraft



pilot

History – History of Flight : Y2 Topic Vocabulary Mat

Subject Specific Vocabulary		Relevant Pictures	Exciting Books/Websites
aerodynamics	The way objects move through air.	  <p>Bessie Coleman</p> <p>George Cayley</p>	<ul style="list-style-type: none"> George Cayley – British history https://www.youtube.com/watch?v=vv9hc7YUT4k Bessie Coleman – Black History https://www.youtube.com/watch?v=Af_eRc188BA
stability	A state in which opposite forces are equal (the state of being steady).		Other information
wings	The part of a flying animal or aeroplane that produces 'lift' to enable flight.		<ul style="list-style-type: none"> In 1873, a 'DS Brown' of Stoke Newington gave a paper which considered in detail many aspects of aircraft design and manufacture. He suggested that steam power could be used in aviation!
glider	A light aircraft without a motor that flies on air currents		
aircraft	Any machine that can fly through the air, such as an airplane, helicopter, glider, or balloon		
biplane	An early type of airplane with two sets of wings mounted one above the other.	What I've learnt already	Key Knowledge
triplane	An early type of airplane with three sets of wings mounted one above the other.	<p>Y1:</p> <ul style="list-style-type: none"> In the past, toys with moving parts were generally mechanical; you had to move a part of the toy to make another part move. Sources help us to find out about the past and that these take different forms; e.g. photographs and film footage, written articles/films about and featuring the people talking about their experience. The Moon landing refers to the first time a human walked on the moon. It took place on July 20, 1969 and the astronauts were Neil Armstrong and Buzz Aldrin. They are American. Exploration has changed over time owing to advancements. 	<ul style="list-style-type: none"> People had an ambition to fly a long time before it became possible (Daedelus and Icarus story from Ancient Greece, Da Vinci's drawings of a helicopter and mechanical flying machines). Many early attempts to fly were unsuccessful.
hot air balloon	A bag made of thin material that is inflated with hot air, causing it to rise and float in the atmosphere. Large hot-air balloons can be attached to a basket and used to transport people or equipment.		<ul style="list-style-type: none"> The hot air balloon was invented by Montgolfier brothers in France, 1783. It has become the oldest invention that can successfully take people into flight. The first manned hot air balloon flight took place in Paris, 1783. Orville and Wilbur Wright were two brothers, born in America. Their interest in flight began when their father bought them a toy 'helicopter'. The Wright brothers' first aeroplane, the Wright Flyer, successfully flew in front of 5 people in 1903. Alliott Verdon Roe was the first Englishman to fly an all-British machine, with a triplane on Walthamstow Marshes in 1909.
helicopter	A type of aircraft that is held in the air and moved along by spinning blades attached to its top side.		<ul style="list-style-type: none"> Bessie Coleman (1892 - 1926) was the first black woman in the world to earn a pilot's license.
pilot	The operator of an aircraft.		<ul style="list-style-type: none"> George Cayley was the English pioneer in designing the first successful glider to carry a human in air in 1804. His research in aerodynamics was used by others to invent aircrafts, like the Wright brothers.