

Operation Spitfire Secondary Curriculum Careers Map				
Lesson:	Stoke-On-Trent and	Gatsby Benchmarks:		
	Staffordshire Employer			
	Competency Framework			
	Index:			
History	Communication - Verbal	Linking curriculum learning		
The Spitfire: How did we	communication skills to	through the lifetime		
get there?	identify key events and	achievements of Reginald		
	describe timelines.	Mitchell.		
Explore the history of the	Resilience - Evaluating the	Experiences of workplaces		
Spitfire.	resilience of the engineers.	through the analysis,		
Discover the changes that	Self Awareness – Offering a	discussion and story telling of		
were made to the Spitfire's	personal opinion based on	the engineering of the Spitfire.		
design as the Second	nistorical information.	LINKING CURRICULUM learning to		
world war progressed.	Positive mindset - Being	careers through discussion of		
	optimistic about personat			
	(discussion/plenan/)	employment opportunities.		
	Teamwork - Ongoing			
	discussion debate paired			
	and collaborative activities			
	relating to historical			
	information.			
Science	Time management - Staying	Linking curriculum learning to		
Forces in Flight	focused on your priorities	careers through the role of		
Flight Variables	when building a prototype	engineers in aircraft, flight and		
Forces in Flight	Communication - Verbal	aeronautical		
The form form on form flight	communication skills to	design/maintenance.		
and experimentation using	describe now flight works	Encounters with further and		
for and experimentation using	Can-do-attitude - Being	to UE courses of Stoffordebire		
Torces.				
	Bositivity - Being ontimistic	Engineering BEng (Hons) or		
	even when faced with	Mechanical Engineering and		
	adversity when prototypes	Sustainable Energy		
	"fail" - reflection of failure is	Technologies MSc		
	an important part of the			
	process.			
	Teamwork - Communicating			
	openly with others when			
	testing a prototype and			
	describing how it performs			
0.1	0			
Science	Communication-	LINKING CURRICULUM LEARNING to		
Forces in Take Off and		careers for both traditional		
Lanung				
	Cidoo. Resilience - To make	ວບເປກແຈເວ.		
	nesilierice - 10 make			







Studying the Spitfire to explore how forces act upon a pilot during take- off, flight, and landing of a military aircraft.	mistakes with parachute testing and improve. Confidence - Taking responsibility for data analysis and exploring risk in the parachute model design. Problem solving - Analysis of the data capture and synthesising the data to discuss.	
Engineering The Merlin Engine: Understanding the basics of a combustion engine Learn about the Merlin engine and how it powered the Spitfire	 Time management - Staying focused on your priorities when testing a prototype. Communication - Verbal communication skills to describe how an engine works. Can-do-attitude - Being willing to learn and attempt new tasks relating to the Spitfire engine. Positivity - Being optimistic even when faced with adversity when building a complex prototype. Teamwork - Communicating openly with others when testing a prototype and describing how it performs. 	Linking curriculum learning to careers through the role of engineers in aircraft, flight and engine design/maintenance. Encounters with further and higher education through links to HE courses at Staffordshire University (STEM courses).
Engineering Powerful Propellers: How the Spitfires' Propeller works Learn about the Merlin Engine and how it powered the Propeller allowing the Spitfire to fly.	Time management - Staying focused on your priorities when building a prototype. Communication - Verbal communication skills to describe how a propeller works. Can-do-attitude - Being willing to learn and attempt new tasks relating to the Spitfire's propeller. Positivity - Being optimistic even when faced with adversity when building a complex prototype. Teamwork - Communicating openly with others when	Linking curriculum learning to careers through the role of engineers in aircraft, flight, and engine design/maintenance. Encounters with further and higher education through links to HE courses at Staffordshire University (STEM courses).







	testing a prototype and describing how it performs.	
Engineering Tilling Shilling Systems Engineer Tilly Shilling's Engineering Challenge	Time management - Staying focused on your priorities when designing solutions. Communication - Verbal communication skills to describe how a complex	Linking curriculum learning to careers through the role of engineers in aircraft, flight, and engine design/maintenance. Encounters with further and
Learn about Tilly Shilling and how she solved a complex problem with the Merlin Engine.	system works. Can-do-attitude - Being willing to learn and attempt new tasks relating to alternative design contexts. Positivity - Being optimistic even when faced with adversity when developing solutions. Teamwork - Communicating openly with others when testing a prototype and describing how it performs.	higher education through links to HE courses at Staffordshire University (STEM courses) e.g. BSc in Product, Furniture, Ceramics





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