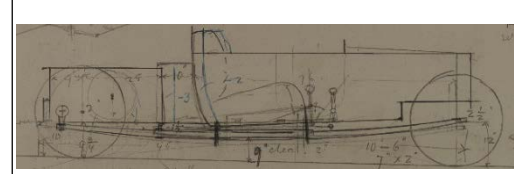




Interactive trail

Explore the space and complete the trail to become a Lanchester Legend!



To answer all the questions, you'll need to use the augmented reality steering wheels  and games  on the touch screens

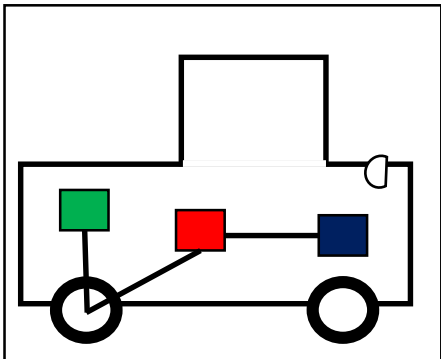
1. Name any three patents that Fred Lanchester produced that appear on modern cars

a)

b)

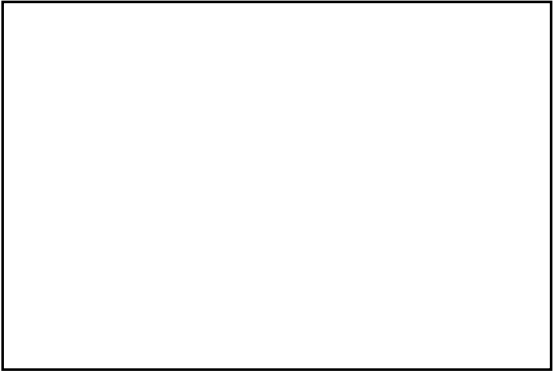
c)

2. Find the picture of the 1927 Hybrid car and draw on the diagram arrows showing the energy flow when the car needs to go uphill.




Petrol engine Electric motor Battery

3. Sketch a picture of the 5hp Phaeton (there is a model and a picture to help you)



4. BONUS – What feature of a modern car is the Phaeton missing (hint it's usually in front of the driver)

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5. Name two of the distance or speed world records that a Lanchester  40hp broke at Brooklands in 1924

a)

b)



6. Sketch the shape of the flight-path that Fred and his brothers observed when testing their gliders in the 1890s


7. Which brothers did Fred write to and discuss theories of flight when they were testing their first aircraft?

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8. What is under the sheet on the right hand side of the workshop where you are testing planes in the Flight game?



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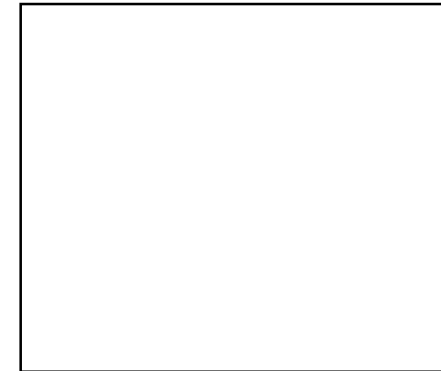
9. What three kinds of components  can you change on the Flight game to improve your aircraft?

a)

b)

c)

10. Sketch the outline of the wing Fred tested with his gliders in the 1890s?



11. BONUS – Which Second World War aircraft design used a similar design for its wings almost 40 years later?

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