How the world's longest underwater tunnel was built - Alex Gendler

Flanked by two powerful nations, the English Channel has long been one of the world's most important maritime passages. Yet for most of its history, crossing was a dangerous prospect. Engineers proposed numerous plans for spanning the gap, including a design for an underwater passage more than twice the length of any existing tunnel. Alex Gendler details the creation of the Channel Tunnel.

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1. What was one of the reasons why the crossing of the English Channel was considered risky in the past?

a. The rough weather conditions

- b. The presence of artificial islands
- c. The construction of underwater bridges
- d. The existence of a submarine passage
- 2. What changed in the late 18th century that made the idea of a tunnel under the English Channel more feasible?
- a. The discovery of a stable layer of limestone

b. The development of underwater tunneling technology

- c. The resolution of economic problems
- d. The improvement of communication between France and England
- 3. What initially prevented the construction of the Channel Tunnel?
- a. Geological instability

b. Military concerns

- c. Lack of funding
- d. Political disagreements
- 4. How was the construction of the Channel Tunnel funded?

a. Private financing from French and British companies

- b. Government grants from France and England
- c. Donations from international organizations
- d. Crowdfunding from the public
- 5. How many separate tunnels were included in the Channel Tunnel project?
- a. 1
- b. 2
- c. 3
- d. 4
- 6. What were the purposes of the three separate tunnels in the Channel Tunnel project?
- a. Passenger trains, freight trains, and a service tunnel
- b. Passenger trains, car transportation, and a maintenance tunnel
- c. Freight trains, car transportation, and an emergency exit tunnel
- d. Passenger trains, maintenance equipment, and an emergency evacuation tunnel
- 7. What challenges did the engineers face while excavating the Channel Tunnel?
- a. Water infiltration and unstable rock formations
- b. Lack of proper tools and machinery
- c. Lack of coordination between French and British teams
- d. Political opposition and public protests
- 8. How did the engineers deal with the water infiltration during the excavation?
- a. Using waterproof drilling machines
- b. Filling the cracks with concrete
- c. Utilizing satellite technology for locating the fissures
- d. Employing paleontologists to study the geological formations

9. What were the coordinates accuracy requirements for the tunnel excavation?	
a. Within 5 centimeters	
b. Within 10 centimeters	
c. Within 2 centimeters	
d. Within 1 centimeter	
10. How many years did it take to complete the construction of the Channel Tunr	nel?
a. 5 years	
b. 8 years	
c. 10 years	
d. 13 years	