

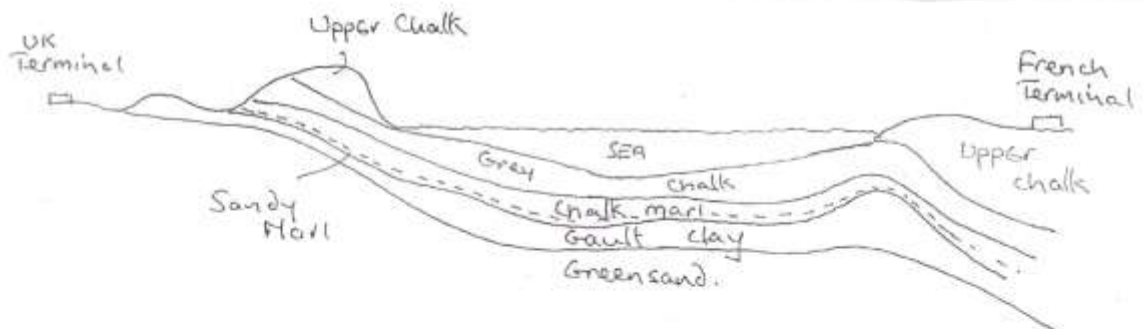
### CHANNEL TUNNEL GEOLOGY

	thickness	strength	permeability
Upper Chalk with flints	100	80	0.2
Lower Chalk, Grey Chalk	46	80	1.1
Chalk marl	25	60	0.2
Sandy marl	3	40	0.8
Gault Clay	40	40	0.1
Greensand	100	30	2.0

To be suitable for the Channel Tunnel the rock unit must have the following characteristics.

Thickness must be >20m. Strength >50. Permeability <1.0.

Flints damage the drilling machinery.



Which rock unit is the most satisfactory for drilling and containing the Channel Tunnel. Explain why.

Draw a line on the diagram to show the route you would suggest. Explain which part of the section is going to be the most difficult to drill.