**IGCSE Geography – Manufacturing Industry - Airbus**

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| At Hamburg the rear part of the forward fuselage and the fuselage are assembled with components coming from Nordenham, and equipped. | B1. The fuselage sections are shipped from Hamburg in the Ro-Ro ferry to Mostyn in Wales where a set of wings is taken on board. | Horizontal tailplane, manufactured at Getafe, Spain. |
| At Stade, in Germany, the vertical tailplane (VTP) is assembled. | After assembly, the A380 aircraft are flown to Hamburg Finkenwerder Airport to be furnished and painted. | B6. Barges then take all of the components from Pauillac to Langon. |
| R1 When completed, the cockpit is sent from Méaulte, by road to Saint Nazaire | R\_ At Langon, all components are loaded onto lorries and trailers for the 240 km road journey to final assembly in Toulouse. | R\_ The convoy takes three nights to reach Toulouse, sometimes using the specially constructed Airbus roads travelling only at night to avoid affecting traffic. |
| At Broughton (Wales) in the UK the parts which go to making up the 45-metre wings are assembled in The West Factory. | B\_ Once completed, the wings are brought to Mostyn Docks by a barge before being picked up by the RORO for transportation to Pauillac | At Saint Nazaire they assemble the forward section of the nose fuselage & cockpit and join this to the rear part of the forward section sent from Hamburg. |
| The VTP is then flown directly from Stade to Toulouse in the Beluga, the only major components of the A380 which can be transported in this way. | B\_ The RORO then leaves Pauillac and picks up the belly and tail sections from Construcciones Aeronáuticas in Cádiz in southern Spain, and delivers them back to Pauillac | B\_ The forward section & the nose are then loaded back on to the RORO in Saint Nazaire where they set sail for Pauillac |
| The two parts of the nose section of the fuselage, which contains the cockpit, are sub-assembled at another French site, Méaulte. | The A380 is then assembled in a specially designed and built hangar in Colomiers near Toulouse | B\_The ship then heads from Mostyn Docks, Wales, to Saint Nazaire in France. |



**Task 1 -** Colour code the boxes above based on the key below.

* Colour in Yellow – Manufacturing Location Information
* Colour in Light Blue – Transportation Involving Boats
* Colour in Medium Blue – Transportation Involving Road
* Colour in Dark Blue – Transportation Involving Air

**Task 2** -

Sequence number each of the Boat Stages – B1 to B6 then add the Boat Transportation routes to your A3 map – Black like with intermittent arrows showing direction

Sequence number each of the Road Stages – R1 to R3 then add the Road Transportation routes to your A3 map – Blue dotted line ………

Sequence number each of the Air Stages – A1 to A2 then add the Air Transportation routes to your A3 map – Green dashed line ………