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| **Workshop : Ships and Shipbuilding KS2**  **National Curriculum Links**  KS2 History: Investigating Local History  KS2 DT:  - Design- generate, develop and communicate their ideas  - Select from and use a range of materials according to their functional properties  - Select from and use a range of tools and equipment to perform practical tasks.  KS2 mathematics:  -measure, compare, add and subtract lengths  - Add and subtract amounts of money | | |
| **Learning objectives** | **Session structure** | **Assessment for learning** |
| **To explore famous ships built on the River Tyne.**  **To investigate the jobs of a shipyard.**  **To increase the scale of a ship plan as accurately as possible.**  **To experience the teamwork needed in a riveting team.**  **To work as a team to buy resources for, design and build a cargo ship.** | **Introduction**  We explore some of the famous ships and shipyards built on the River Tyne. We think about the different jobs available on a ship and use actions to help us remember.  **Session activities**  We take a closer look at some of the jobs available on the shipyard starting with Loftsmen. Working in small groups children are tasked with increasing the scale of a ship plan onto a large sheet of paper. They should try to make the drawing as accurate as possible and consider the scale.  Next, we investigate the teamwork needed to be part of the riveting team. Working in groups teams must work to get as many rivets as possible “installed” (coloured!) before the time is up. This is a fast-paced game which needs good communication skills.  **Plenary**  Finally working together in small team's groups must buy resources for, design and build a ship to carry as much cargo as possible. We test the boats to see how many coins the ship can hold without sinking or getting the coins wet. To finish we discuss the best design and contemplate ways in which they could be improved. | Children will explore themes through class and group activities, we will ask questions throughout to check understanding.  Children will have opportunities to respond and give feedback throughout the session.  There will be opportunities for Q&A at the end of the session. |
| **Before your visit** | **After your visit** | **Key vocabulary** |
| Make a free teacher pre visit to familiarise yourself with the site- contact [learning@discoverymuseum.org.uk](mailto:learning@discoverymuseum.org.uk)  Explore the museum virtually using goggle institute:  <https://artsandculture.google.com/partner/discovery-museum> | * Explore our ships and shipbuilding resources <https://discoverymuseum.org.uk/week-8-ships-and-shipbuilding> * Explore the museum to see how many ships you can find <https://discoverymuseum.org.uk/exploring-discovery-museum-self-led> | Float, sink, anchor, rivet, riveter, propeller, shipyard, laying the keel, slipway, gantry, heater boy, loftsman, draughtsmen, moulding loft |