

Vocabulary:	
Aesthetics	Related to how something looks—usually in a positive light.
Durability	The ability to withstand wear, pressure, or damage.
Functionality	The quality of being suited to serve a purpose well.
Target Market	A particular group which a product or service is aimed at.
Research	Careful study of something in order to find out information about it.
Cross-sectional	A view or drawing that shows what the inside of something looks like after a cut has been made across it.
Pulley	Pulleys are made by looping a rope over one or more wheels. They are often used to lift heavy objects.
Mechanism	A system of parts working together in a machine; a piece of machinery.
Circuit	A circuit is a complete path around which electricity can flow. It must include a source of electricity, such as a battery.

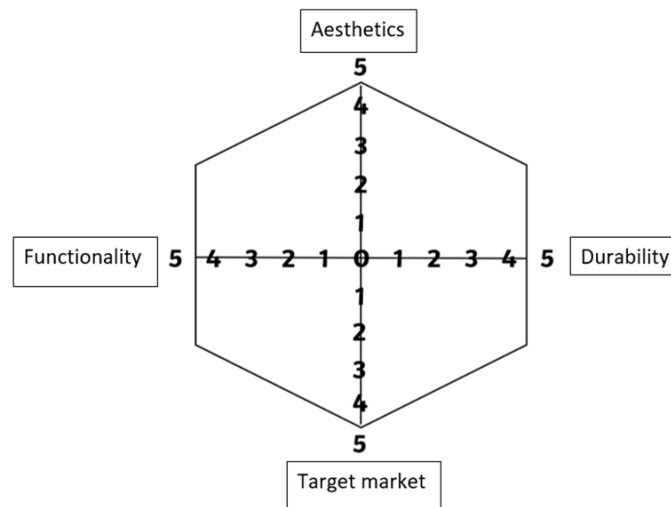
### Design Brief:

There has been a lighthouse at Spurn point since as early as the 15th century. The current lighthouse was built in 1895 to replace a pair of lighthouses (one of these remains as a water tower). It was decommissioned in 1985 as navigation improved, and remained empty for decades. The lighthouse was restored in 2013.

Yorkshire Wildlife Trust have given you funding to redesign the lighthouse at Spurn point. They are looking for detailed cross-sectional designs and models to accompany the designs. They have also asked for an electrical component to be used as part of the internal mechanisms.

### STAR Evaluation:

### Key Figure:



Thomas Matthews

