



*I'm going to think like an engineer!*

Roisin wants to be an engineer when she is older. Engineers build and look after machines.

Floating wind engineers plan the building of the windfarm. Engineers will carry out maintenance and repairs to keep the wind farm working.

There are many types of engineers that will work together as a team so we can have clean electricity to power our homes, schools and others things we need.

Help Roisin put these steps for building a floating wind farm in order -

- Pick site
- Tow to the site
- Shortlist sites
- Choose a design for the platform
- Get permission to use site
- Fix anchors to seabed
- Wildlife Surveys
- Build Platform
- Connect electric cables
- Choose the model of turbine
- Lay electric cable
- Wildlife Surveys
- Connect anchor chains
- Attach wind turbine to platform

Steel is a very strong metal. Wind turbine towers and platforms are made of steel. But steel **rusts** in salt water and will become weaker!



Will the turbines last long enough?



"I'm going to do a test."

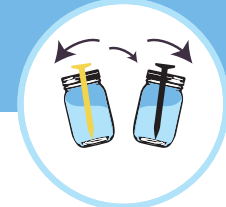


"Let's see if painting the nails stops the rust?"



Makes no difference...

"I'll put salty water in 2 jars. I'll put a painted nail in one jar and a standard nail in the other. Every day I'll shake both jars. I'll compare how rusty they are after 1 week."



Roisin needs to decide whether to:

Use thicker steel so rusting does not matter

Paint it

Think of **two questions** she needs the answers for so she can make the best choice!