

ROV DRIVE



SIMILAR TO THE 'BEETLE DRIVE' GAME, THIS IS A FUN ACTIVITY FOR ALL WHICH ALLOWS EVERYONE TO DRAW THEIR VERY OWN REMOTELY OPERATED VEHICLE. YOU WILL NEED:







GAME SHEET



PENS/PENCILS

RULES

- > Give a game sheet to each player.
- > The youngest player starts first.
- You must draw the frame of your ROV first to start play (meaning you must roll a 6 first).

IF YOU ROLL...

- 6 Draw the ROV frame (this must be drawn first).
- 5 Draw the HD video camera.
- 4 Draw the syntactic foam and umbilical.
- 3 Draw the 4 engine thrusters.
- 2 Draw the robotic arm.
- 1 Draw the light

The round ends when the first person in the room draws a complete ROV and shouts 'ROV'.



TITANIC BELFAST。

WHAT'S AN ROV?

An ROV is a Remotely Operated Vehicle, a tool used to explore our oceans. It is controlled by an ROV operator on-board the ship and sends live video of what it is seeing back to the control room. ROVs can also be used to take samples of creatures, gases, seabed sediments and are regularly used to collect scientific information (data) about the area in which it operates.



PARTS OF AN ROV:

1 FRAME AND HYDRAULIC SYSTEM

The frame of the ROV is its skeleton to which everything else is attached. The hydraulic system is the heart and blood system of the ROV - electrical wiring doesn't agree with sea water, so the hydraulic system is usually filled with oil to protect it at great depth and pressure.

2 SYNTACTIC FOAM

Syntactic foam is made from hundreds of thousands of tiny hollow glass balls in a glue-like cement. It helps control the buoyancy of the ROV.

UMBILICAL/TETHER

The umbilical or tether connects the ROV to the ship. It is through this fibre-optic cable that the ROV gets its power and sends video and data back to the ship.

THRUSTERS

The thrusters are how the ROV moves under water. They are controlled by the ROV operator on the ship and allow the ROV to move forward, backward, right, left, up and down.

5 LIGHTS
Super-bright lights are used to light up the underwater world so the

ROV can see the sea floor and the unusual creatures in the deep dark depths of the ocean.

6 ROBOTIC ARMS

The robotic arms are used to collects samples from the sea bed. They

are controlled by the operator on-board the ship.

7 VIDEO CAMERA

The video camera allows the operators to see what life is like in the ocean depths and to decide which samples they should take back to the surface. The video camera on an ROV is the eye into the deep.











EXPLORE THE DEPTHS

YOU ARE PLANNING A DIVE IN THE OCEAN WITH YOUR ROV. DECIDE WHAT YOUR MISSION WILL LOOK FOR... SHIPWRECKS, TREASURE, UNDISCOVERED SPECIES?

DRAW WHAT YOU THINK YOU MIGHT DISCOVER!







