



**Science & Technology**

Air Resistance experiment  
Paper Aeroplanes - shape and flight  
Buoyancy - Sink it m'hearty  
Make a STEM Boat - floating and sinking  
Rolling ramp experiment

**Maths**

Sea Creatures - weight and volume  
Ramp Timing Challenge  
 Use stopwatches (or counting) to time objects rolling down ramps. Children can compare times, calculate differences, or graph results.



**For Info**

Forces are all around us – from rolling a ball down a hill to floating a boat in water. Exploring pushes, pulls, twists, and turns outside helps children understand how motion works in a playful and practical way.

**FORCES**  
**TOPIC**  
**MAP**



**Expressive Arts**

Roll-painting with different objects to explore motion patterns  
Twiggy Xylophone - vibration and sound

**Literacy**

Sound poem - using movement, vibration and senses  
 Write instructions for building/testing boats or planes  
 Create imaginative stories from the perspective of an object in motion

**Health & Wellbeing**

Tug of war or team pulling games (push/pull awareness)  
 Obstacle races rolling balls or tyres (shape + speed)  
 Playground games to test balance and motion

