

Hover (Cubs)

(Where did all the friction go?)

J.Leahy (Mar09)

Cost: \$2 per Cub

<u>Time</u> (pm)		<u>Activity time</u> (mins)
7:00	Short talk on Friction. (What's gravity got to do with it?) - important for walking, riding skateboards and cars - also <u>wastes energy</u> and rubbing surfaces wear out - heat generated by rubbing hands together	5
	Group 1	
7:05	Samples to try, (Rubber, wood, metals, glass, Teflon) - which have least resistance? Board to sit on with pull rope - try <u>flat</u> on floor, with 2 <u>runners</u> (sled), with 3 <u>rods</u> , with 4 <u>wheels</u>	15
	Group 2	
7:20	How else can we make things float? Aeroplane - <u>wings</u> float on air Lighter than air - <u>Helium</u> and Hot air balloons <u>Propellers</u> - radio controlled helicopter <u>Electrostatics</u> - Fly Stick <u>Magnetic Levitation</u> Floating magnets MagLev train	15
7:35	Make 'Hover CDs' - Race Balloon Hover Pucks (2 at a time down inclined board)	10
7:45	Show Air Puck - all try sitting in circle. - How does it work? - Would you like to ride on it?	10
7:55	Ride on 'person carrying' Hovercraft - Leaders have a ride - Show how works and explain safety methods	5
8:00	Each have a ride on hovercraft	20
8:20	Try changing directions & spinning (Sixers)	10
8:30		