

**THEME : SCIENCE in the World around us**

7:00	<p><b><u>Opening Parade ()</u></b></p> <ul style="list-style-type: none"> <li>- DIBS</li> <li>- Flag &amp; Escorts</li> </ul>
7.10	<p><b><u>Game - Helicopter</u></b></p> <p>With a leader in the centre swinging a rope around in the circle, the cubs jump over to avoid the rope. Those hit are out.</p>
7.25	<p><b><u>Science Activity</u></b></p> <p>See below</p>
8.05	<p><b><u>Game - Pipe relay</u></b></p> <p>The object is to get your teams ball to the tin at the other end of the hall. However, each cub has only 20cm of half-round PVC pipe, so their team has to continue the track ahead of the player with the ball in their piece of pipe. Cubs cannot walk with the ball on their piece of pipe. (game allows time for other leaders to pack up bases)</p>
8.10	<p><b><u>Game - Ice Hockey</u></b></p> <p>Traditional style hockey but with a block of ice as the puck and rolled (&amp; taped) newspapers as the bats.</p>
8.20	<p><b><u>Closing Parade</u></b></p> <ul style="list-style-type: none"> <li>-DIBS</li> <li>-Flag</li> </ul>

**ACTIVITY NOTES.**

Cubs divide into 3 groups. 3 bases to be set up - one leader per base. Allow about 12 minutes per rotation. Each leader to state the purpose of the base, describe what the cubs will learn at that base, how that relates to them, and describe what they will do.

1	Cub Coke	Making Sherbet	Need: Citric Acid, Bi-carb of Soda, Icing Sugar, plastic cups and teaspoons.
2	Launch Pad	Making Pop-Rockets	Kodak film canisters, 20 Alka Seltza, cup, teaspoon, labels for film-lids.
3	Making Music	Science of Sound	thin rope, 8 glasses, teaspoon, water

**CUB COKE**

Sherbet Making – Purpose: the chemistry of food.

Qty per cub:

1/2 tsp of citric acid

1/4 tsp Bi-carb of Soda

3 Tsp Icing Sugar

Mix in plastic cup, feel free to eat immediately

**LAUNCH PAD**

Pop-Rocket making - Purpose: Chemical reactions and the pressure of gas

Need a KODAK film canister (Fuji ones seal differently)  
Add name/initials etc onto a label on the lid before starting.

Put an Alka-Seltza tablet into a canister, add a teaspoon of water, and seal with the lid.  
Place on floor and watch the lid blow off as the pressure builds!  
(could be best just outside due to water spills?)

**Bicarb Soda and vinegar works well too, and is cheaper.**

NOTE – only one cub in the group should be allowed to do his at a time. This is mainly to stretch out the time used for this base. Only ONE rocket per Cub!

### **MAKING MUSIC**

Making a Xylophone using glasses of water – Purpose: How we hear things

Talk about sound waves, and demonstrate waves using the rope.

Pre-Fill the 8 glasses to various levels, and if possible have a small mark at the best level for each.

Show how tapping GENTLY with the teaspoon can produce a different sound for each different level of water. Can they create a tune? –Each Cub to take a turn at playing a tune.

(Best done on kitchen sink area due to possible water spills).