

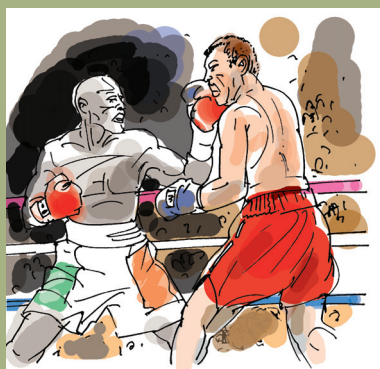


# Green Schools Network

## ACTIVITY SHEET

November 2011

### Why talk about Sports Accessories?



There is no doubt about it. Taking part in Sports is the best way to combine one's fitness regime with entertainment. In fact, sports is more than that. It is an integral part of our growing up. No wonder it features in the daily timetable of every school in every corner of the world. But this activity is not about games, but the stuff we play them with. About sports equipment, accessories and goods. What are they made of and how are they produced. Do they have an impact on our immediate environment?

Name.....

School Name .....

Class..... Date .....

### Gobar Gyan

Did you know that Sports industry, worldwide, is an important revenue generator? Sports goods industry comprises sports equipment, accessories, and apparels. Not only global giants but even the localized industries contribute in the manufacturing process.

For instance, Summer Olympics is a major money spinner in the world of sport. Economy Watch, in an online article dated 30 June 2010, stated that 2008 Beijing Olympics involving over 11,000 athletes from 204 nations competing in 302 events, generated revenue of US \$42 billion (approximately Rs.197400000000 – One Lakh Ninety Seven Thousand Four Hundred Crores)



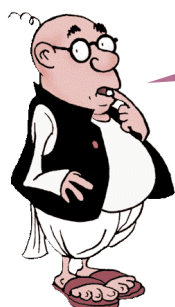
An industry is a group of companies that perform similar function/s, it can also refer to all company groups, or the production of an economic good within an economy.

### Activity 1:

Now that you have an idea how gigantic the Sports Industry is, let us explore the raw materials used by these units for meeting the demands. First, let us to answer the following questions.

1. Which is your favourite Sport/s? \_\_\_\_\_
2. What are the equipment, accessories and goods required to play your favourite Sport/s professionally/safely?

\_\_\_\_\_  
\_\_\_\_\_



*Hi! I am Pandit Gobar Ganesh. You will find me in Gobar Times—a magazine that tells you how your everyday life is linked to the world around you. Hooked, huh? If you want to know more about me and Gobartimes visit us at: [www.gobartimes.org](http://www.gobartimes.org)*

3. What is the estimated cost of equipment, accessories and goods required to play your favourite Sport?

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**Gobar Gyan:**

What do you think this means: "Lamb Dand Golpind Dhar Pakad Pratiyogita"?

Yes! You guessed correctly. It's Cricket in Hindi. Let's chat about the most famous Sport of India – Cricket. We are sure that you or someone from your household has visited a Sports shop to buy some cricket related accessories. Bat, Ball, Gloves, Helmet and Stumps are some of the most commonly used equipment required to play cricket, safely. But have you ever wondered what is it made up of?

**The art of hand-making cricket bats is known as Pod Shaving.**



**Bats:** Timber is cut, waxed and dried to remove moisture, and given the basic blade shape. It is then compressed to give it enough strength to withstand the impact of a cricket ball. A handle, laminated cane and rubber strips, is glued to the blade. Sounds simply? But definitely it's not.



**Balls:** Sheets of synthetic leather attached to several layers of cloth are cut into hexagonal panels. A bladder (much like a balloon) is made of natural/synthetic rubber. The hexagonal panels are stitched around the bladder, and inflated.



**Gloves:** Leather sheets are cut in shape, lined either with leather or nylon taffeta. Then they are stuffed with high-density polyurethane, Latex, polyvinyl chloride (PVC) foam or cotton, and stitched.



**Helmets:** The helmet outer shell is constructed, mostly of a tough plastic called polycarbonate alloy. Protective 'air-liners' made of elastic materials are affixed, which like air, absorb kinetic energy of movement and decrease the impact of a blow to the head. Jaw pads, face-masks, and chin-straps are then attached.

**Activity 2:**

What are the materials used to make a cricket Bat? Of course your answer will be Wood, Plastic and Rubber which are there for all to see. But what about the materials which are not visible but play a pivotal role in shaping that perfect Bat for you. Let's do an exercise to know our Sports accessories better.

Favourite Game's Accessories	Material used which is Visible	Material used but not visible
Cricket Bat	Wood, Plastic and Rubber	Water, Metal, Electricity, etc

In March 1974, the *Chipko* movement began by the women of Reni village in Uttarakhand, India, saved the trees in the surrounding forests from being cut for making cricket bats. But did it save other forests? No. Now, Indian manufacturers make about 240,000 cricket bats are made from English Willow, and another million from Kashmir and Poplar timber. Imagine the number of mature trees that are cut each year! So, do we need another *Chipko* movement?

1. Do you think the goods costs much more than its price mentioned in the shack? Yes  No

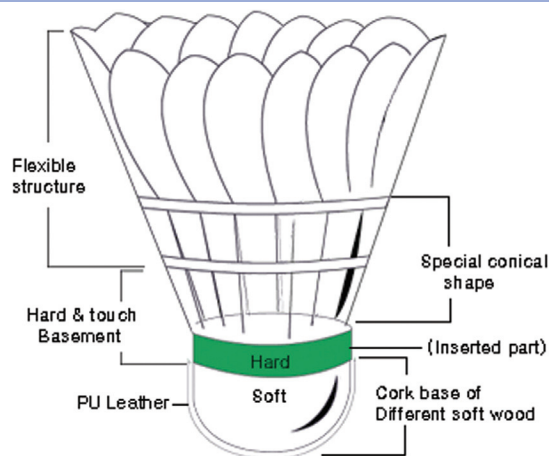
2. If yes, then calculate the total cost of the same. \_\_\_\_\_

## Gobar Gyan:

Badminton is played everywhere-in the courts, in backyards of homes, fields, lawns and parks. We play it for fun, recreation and without much effort or thought. But it is a competitive game as any other. The professional badminton players have to remain as fit as the tennis or football players. In terms of health badminton game demonstrates speed, stamina, power and skills. It is also one of the most played sports in Asia. Badminton, like tennis, is a racquet sport played by either two opposing players (singles) or two opposing pairs (doubles).

**Badminton is the FASTEST Racket Sport in the World.**  
**Did you know that? A Shuttle can travel as fast as 200mph**

A shuttlecock is sometimes called a bird or birdie. Have you ever thought why? The conical shaped shuttlecock has two parts - the round cork base which is covered with thin leather and an open conical. These birdies are made up to 16 bird feathers which are overlapped and laced together by thin threads. Feathered Shuttlecocks are manufactured from the feathers of only the left wings of geese or ducks. Manufacture of shuttlecocks from the feathers of Chinese ducks is quite common. You might have come across the synthetic shuttlecocks. The main advantage of the synthetic shuttlecocks is that they last much longer than their feathery counterparts.



### Activity 3:

Let's compare the feathered and synthetic shuttlecock.

In professional play however, using a feathered shuttlecock of the very best quality is the norm.

Criteria	Feather Shuttlecock	Synthetic Shuttlecock
Weight		
Placement of feathers		
Speed		
Durability		
Cost (INR)		

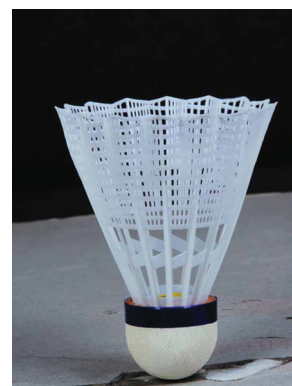
Do you think that using synthetic shuttlecock for recreational purposes is environment friendly?  
If yes, share with us why \_\_\_\_\_

\_\_\_\_\_

If No, then what the reasons \_\_\_\_\_

\_\_\_\_\_

All these sports accessories will ultimately break or wear out. So what is the next step? Throwing it away is the easiest option. Have you thought about recycling it? Obviously not yet. Well most of the sports equipment cannot be recycled due to the materials used to make it. So why not reuse them - donate your gears to someone who cannot afford new ones.



If you found the activity sheet interesting, E-mail us at [eeu@cseindia.org](mailto:eeu@cseindia.org) or write to:  
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