

# **SCIENCE @ THE LIBRARY**

## **AIRZOOKA**

An Airzooka is a wave-launching device.

### **WHAT TO DO:**

To operate simply pull back on the elastic handle and release - it is designed for over 2000 'pull backs'. This is a novel product which requires no batteries and better yet, never runs out of ammo! Airzooka is a "fun gun" that blasts a harmless ball of air up to 20 feet.

### **CAN YOU GUESS HOW IT WORKS?**

It sends a wave, but where is the pushing? Are you storing energy? When does it turn into moving energy? Where does the wave start? What's going to happen if you release it at the empty soda can?

### **HOW IT WORKS?**

Basically, it pushes the air in its reservoir out the front very quickly. Pulling back on the elastic band stores the energy in the elastic. When we let go, it pushes very hard on the air in the drum, and the wave continues out the front and across the room.

### **TRY THIS:**

Send one weak push, and then one strong push towards the empty soda cans. What happens?

Try standing further back, and discuss how far they think it will go. Why doesn't it go forever? Would it work in the wind?