

Name: _____

Card sort lab sheet

Part Two:

Instructions: With your partner, re-sort your cards on your lab table into **seven** groups.

- Be able to explain your reasoning for the groups.
- Each group must contain more than one card.
- All the cards must be used.

1. In what way did you and your partner sort the cards? Explain your reasoning and then list your cards that belong in each group.

Group Title							
Cards in the group							

Part Three:

Instructions: With your partner re-sort the cards on your lab table into **TWO** groups.

- Be able to explain your reasoning for the groups.
- Each group must contain more than one card.
- All the cards must be used.

1. In what way did you and your partner sort the cards? Explain your reasoning and then list your cards that belong in each group.

Group Title		
Cards in the group		

Name:

Card sort lab sheet

Part Four:

Instructions: With your partner sort the cards on your lab table into the seven types of Energy. Use the definitions below to help you sort the cards.

- Each group must contain more than one card.
- All the cards must be used.

Energy Definitions

Mechanical Energy – related to the movement of objects or its position in gravity.

Sound Energy – relates to the repetitive compression (squeezing) and rarefaction (letting out) of molecules in a substance (solid, liquid, gas).

Chemical Energy – related to the potential energy stored in the bonds between atoms in a compound.

Radiant (Light) Energy – related to the vibrations of an electrical charge or magnetic field that produces electromagnetic waves that can travel through a vacuum such as space.

Electrical Energy – related to the movement or flow of electrons which carry a charge.

Thermal (Heat) Energy – related to the motion of atoms or molecules in a substance.

Nuclear Energy – related to the potential energy stored in bonds between particles in the nucleus of an atom.

1. Using the table below record the way you and your partner have sorted the cards.

Group Title	Mechanical	Electrical	Sound	Radiant	Thermal	Nuclear	Chemical
Cards in the group							

Name:

Card sort lab sheet

Part Five:

Instructions: With your partner re-sort the cards on your lab table into TWO groups. One group will be potential energy and the other group will be kinetic energy.

- Each group must contain more than one card.
- All the cards must be used.
- Hint: in general, most cards will stay with other cards from the same energy.

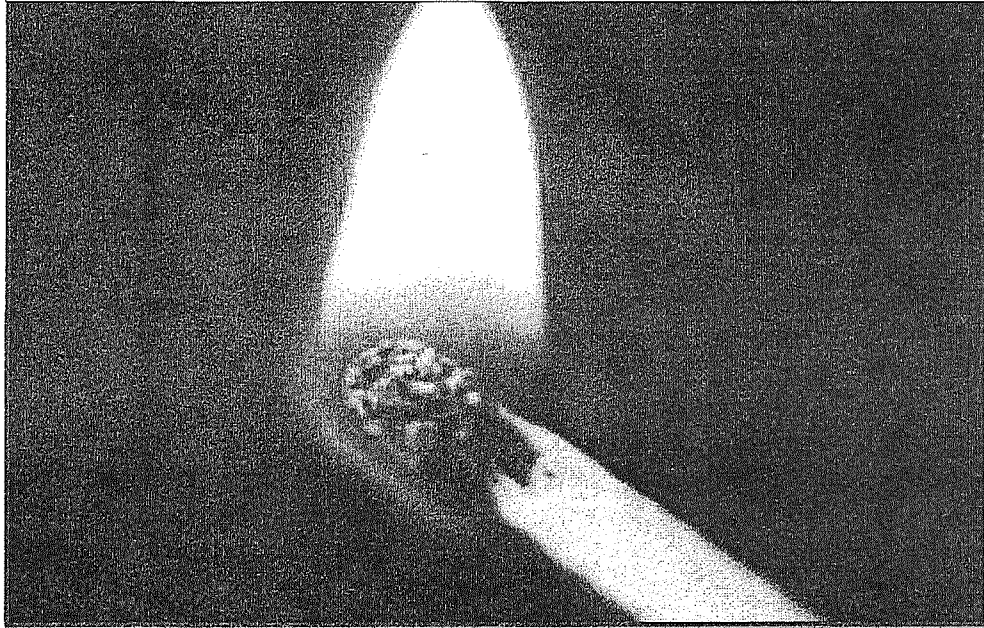
Potential Energy – stored energy and the energy of positional gravitational energy. There are several forms of potential energy.

Kinetic Energy – energy of motion (of waves, electrons, atoms, molecules, substances, and objects).

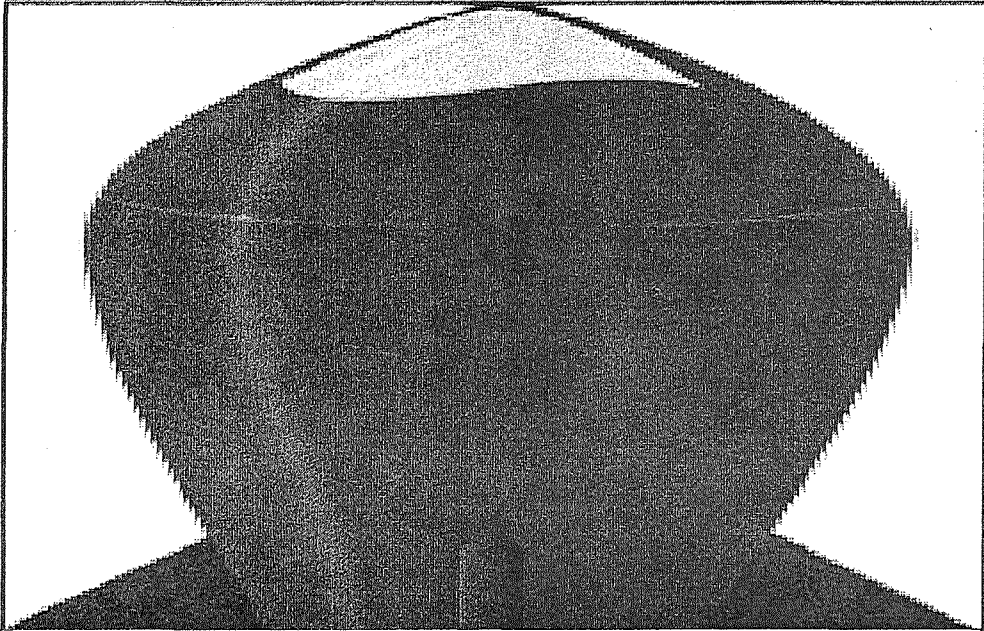
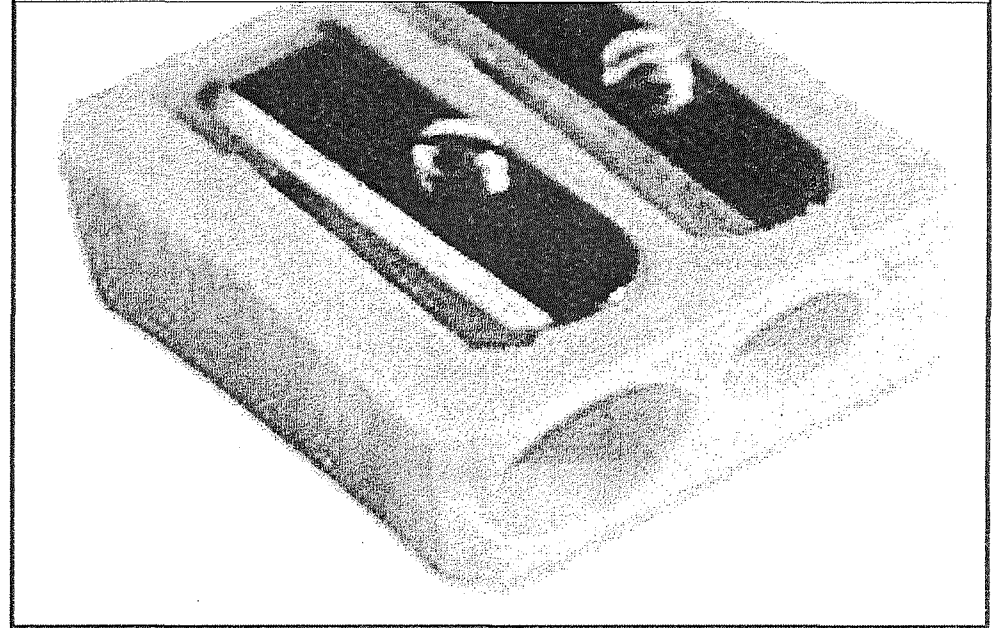
1. Using the table below record the way you and your partner have sorted the cards.

Group Title	Potential	Kinetic
Cards in the group		

Lit Match

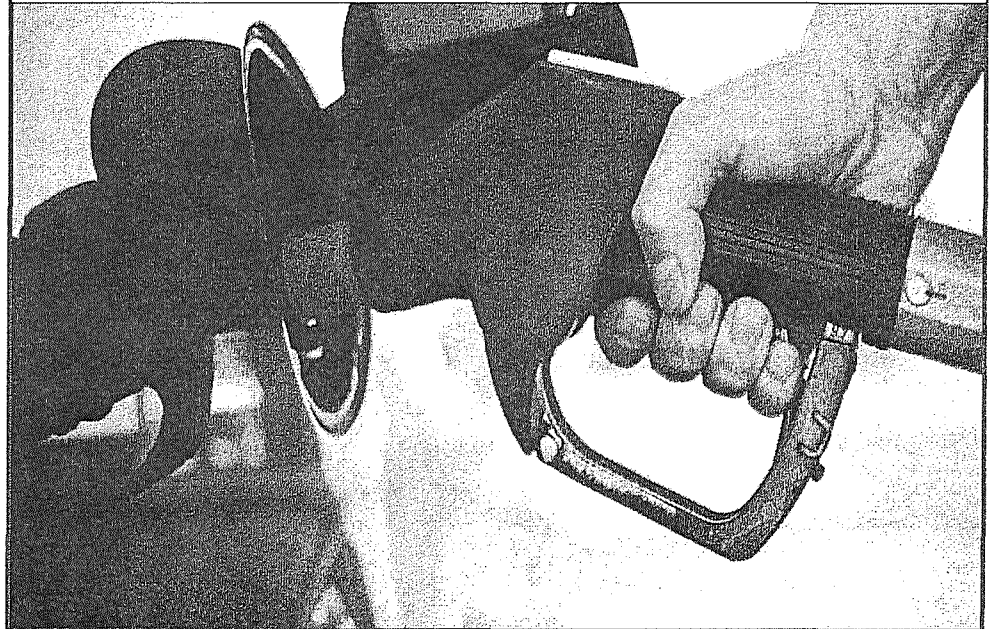


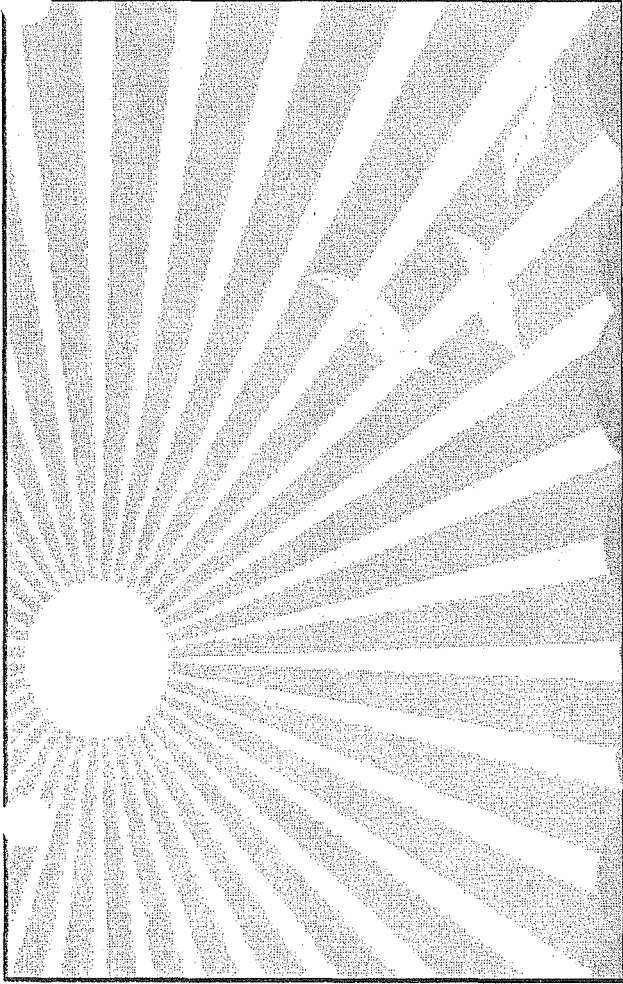
Pencil Sharpener



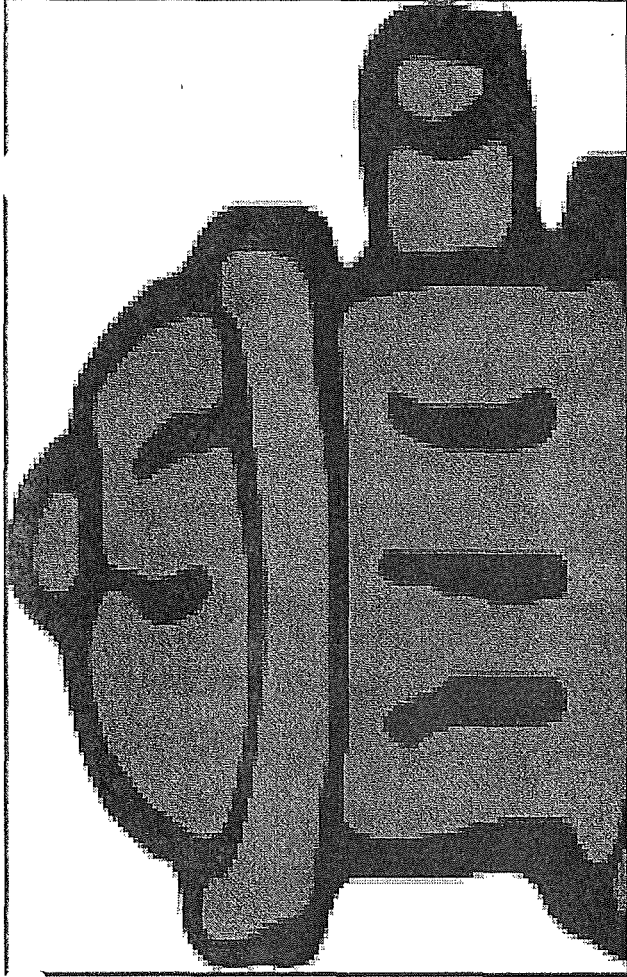
Atomic Bomb

Gasoline

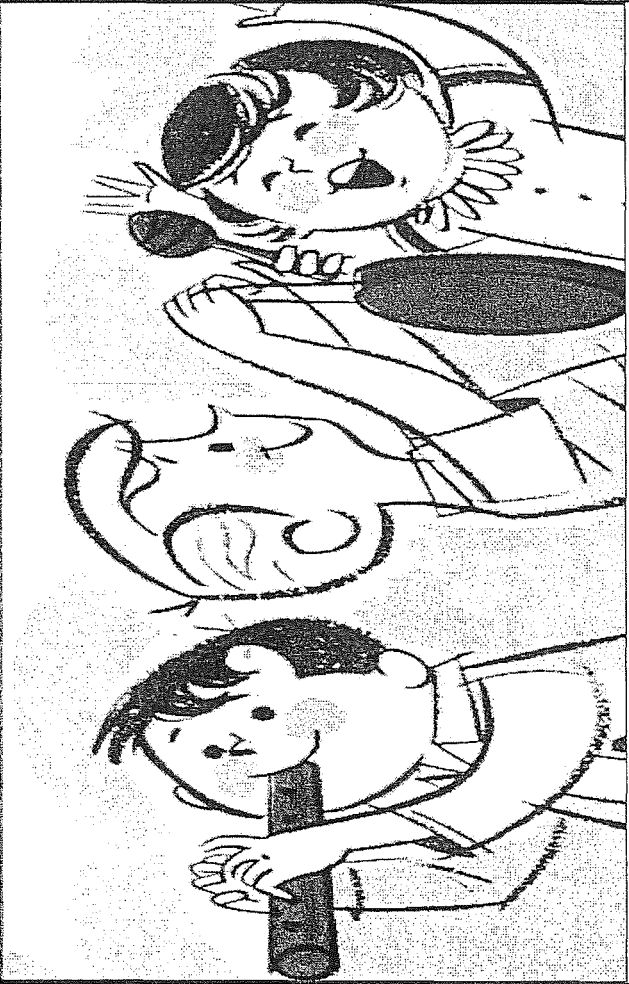




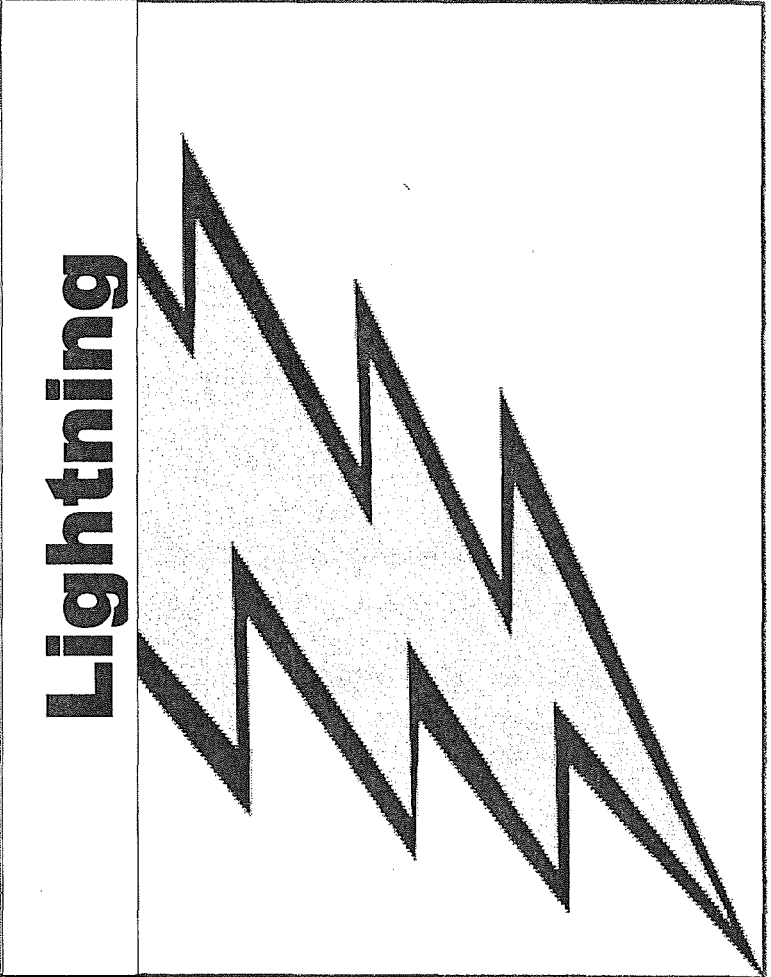
Sun light rays



Fire Hydrant

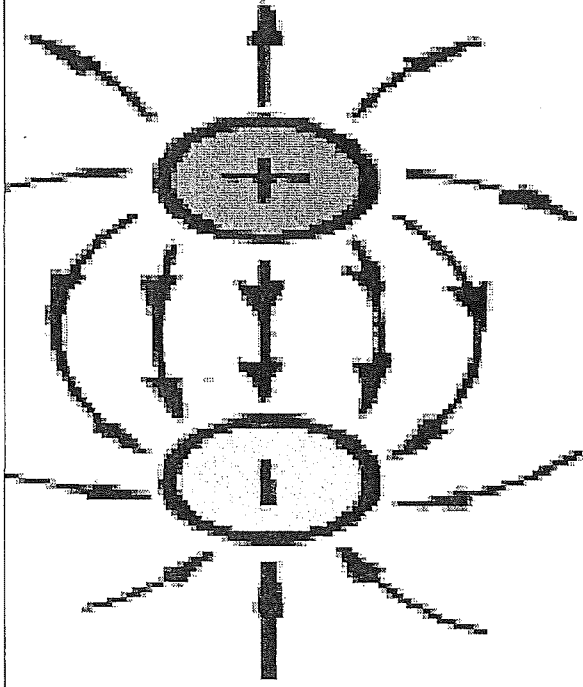


Playing Instruments



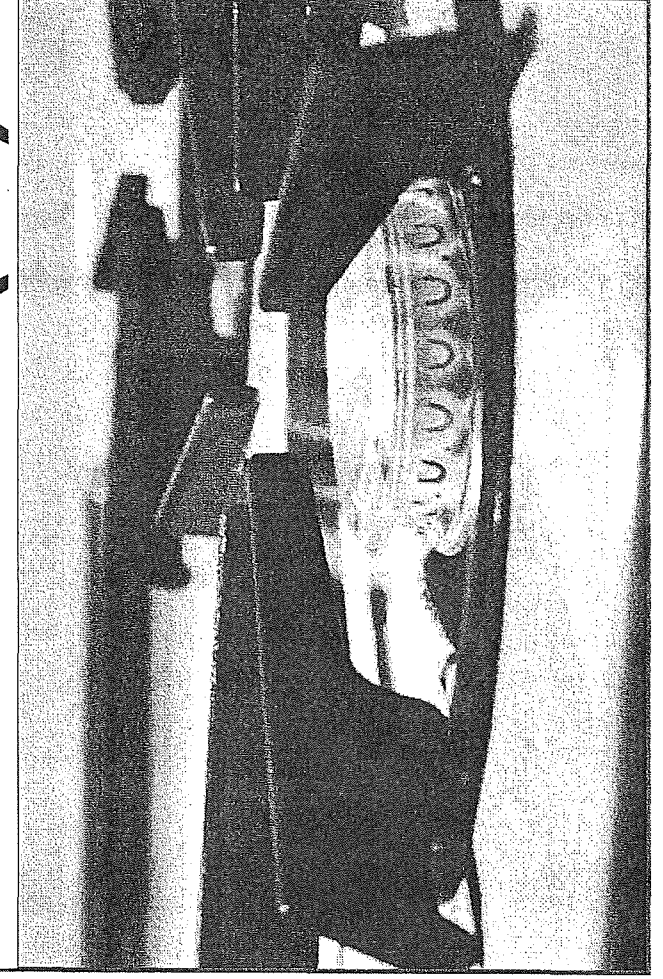
Lightning

Electrons



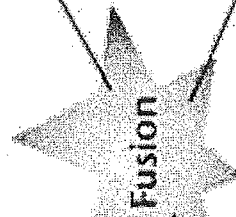
Fishing

Gas Stove (on)



tritium H³

helium He⁴

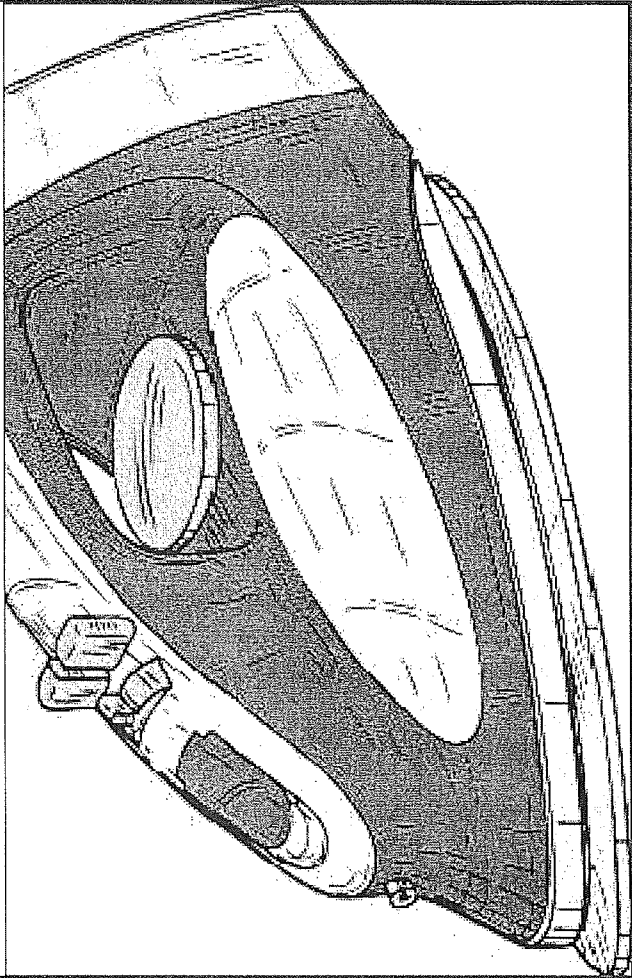


deuterium H²

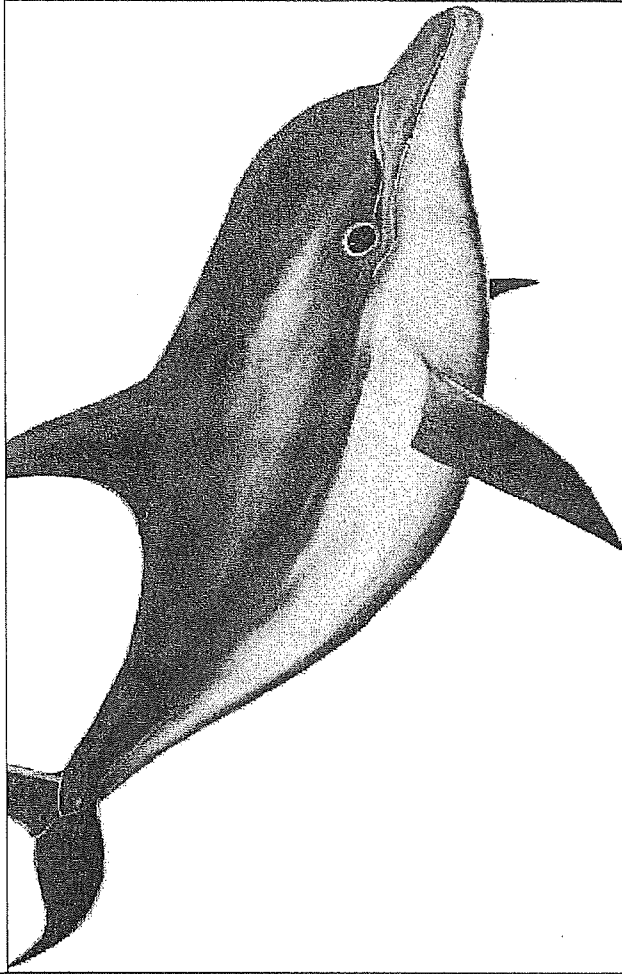
neutron

Atoms Fusing

Iron



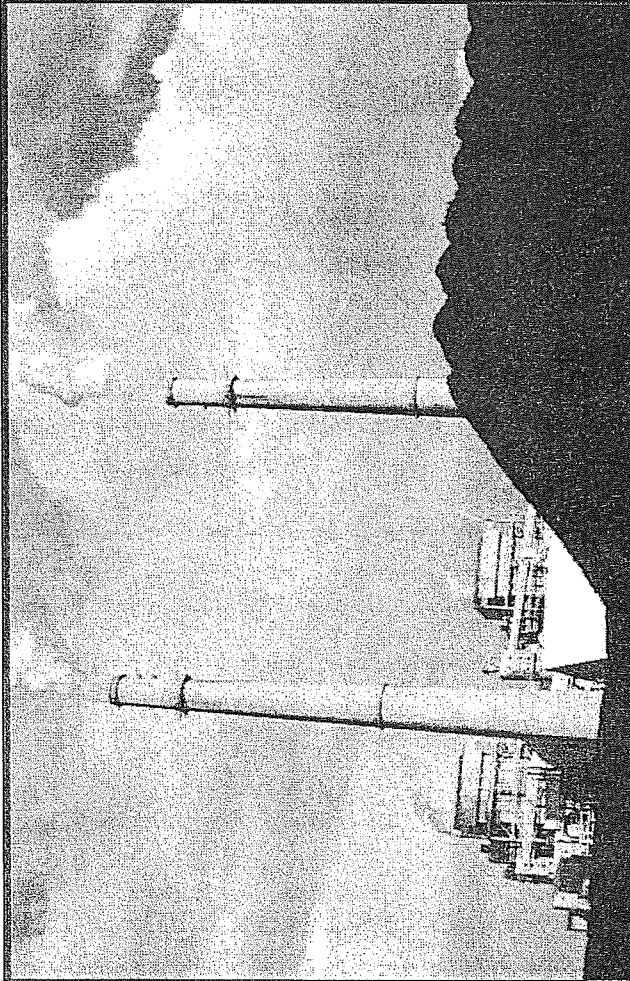
Dolphin



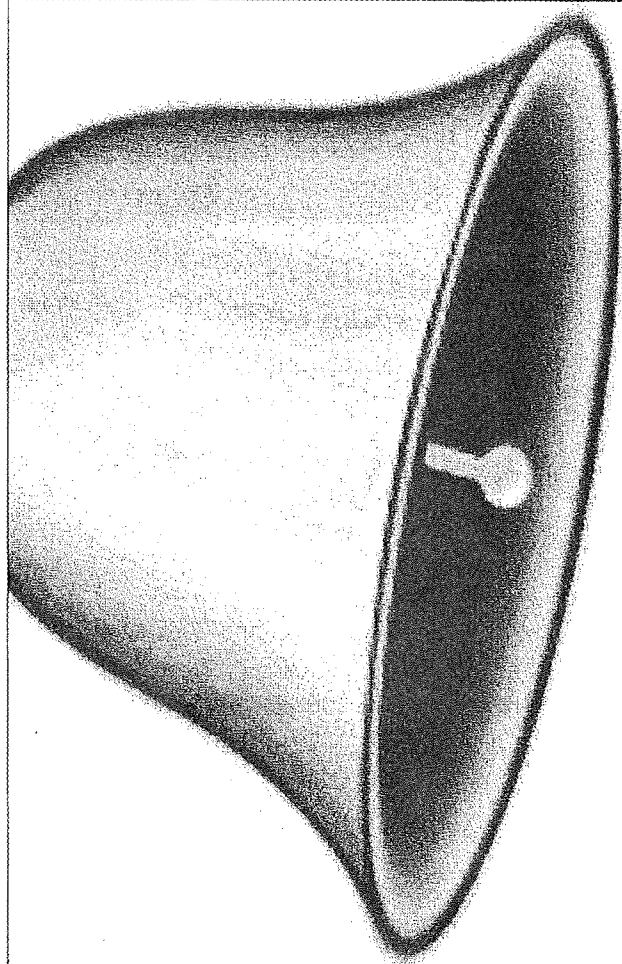
Geiger counter



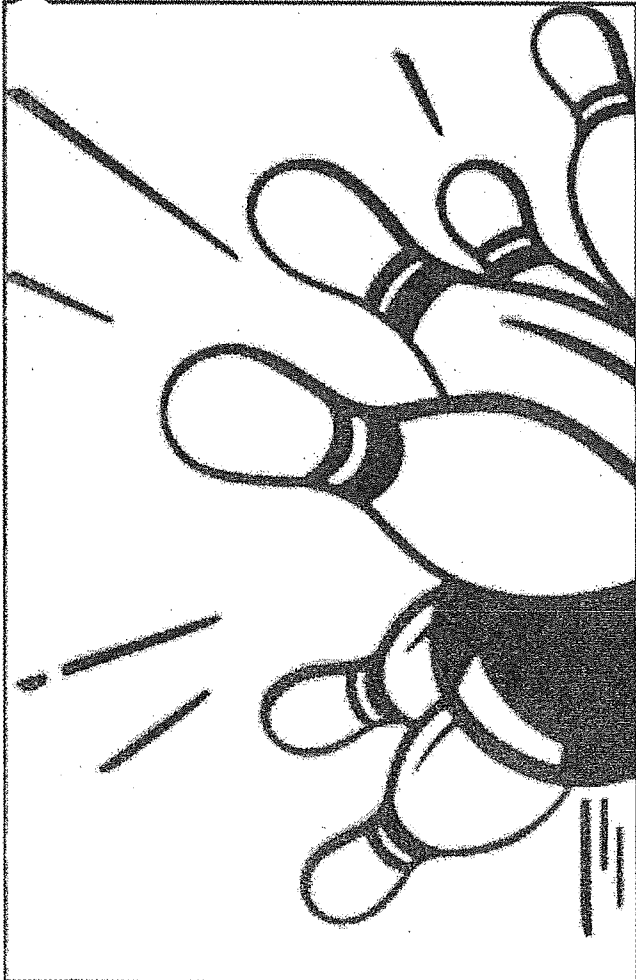
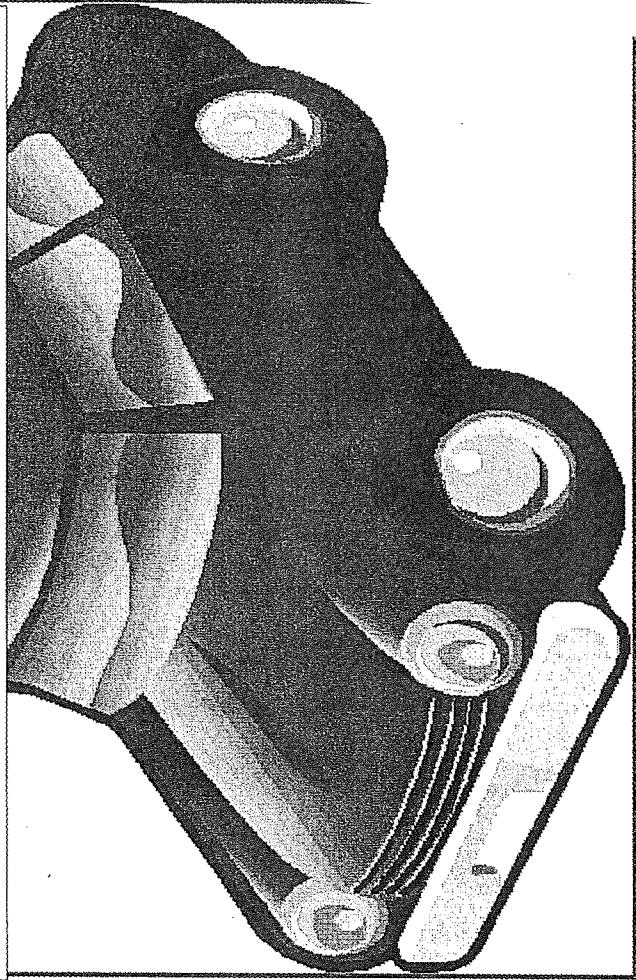
Coal



Bell



Car

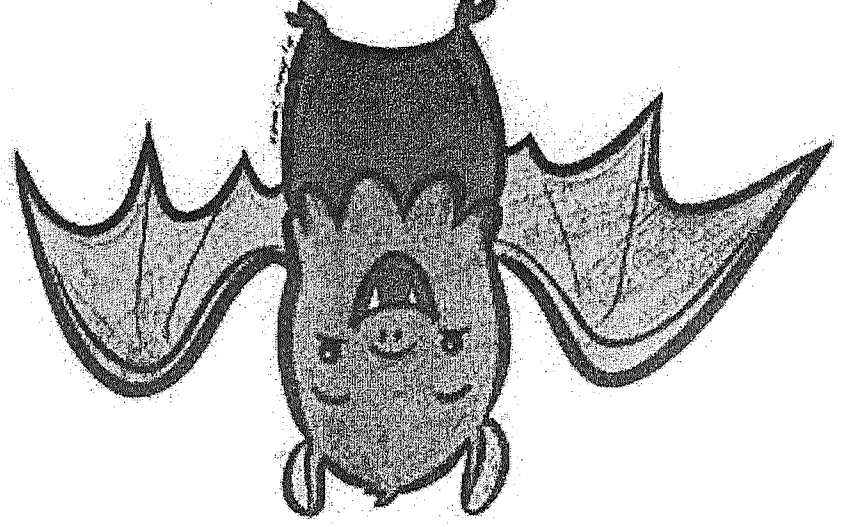


Bowling Pins and Ball

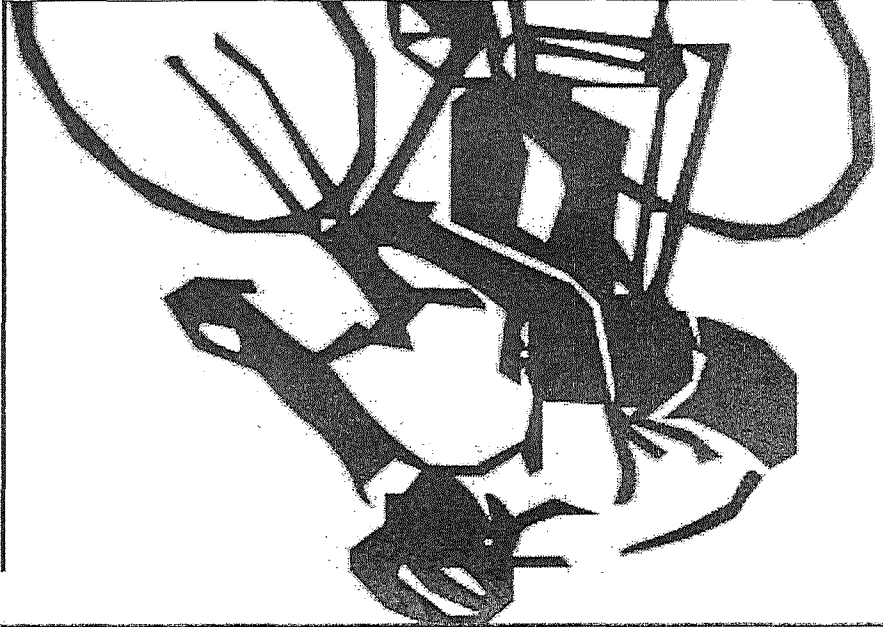
X-ray



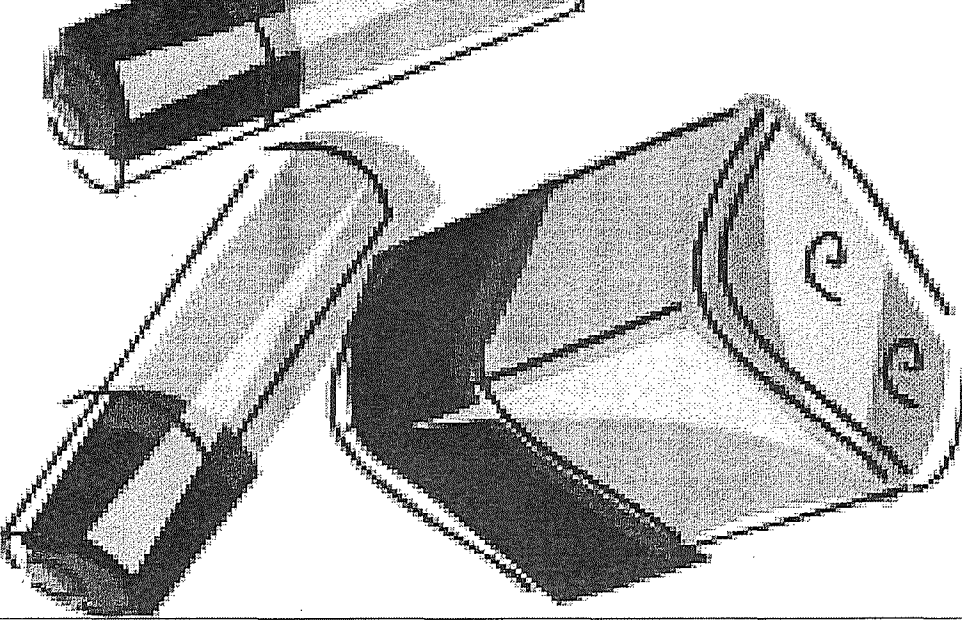
Bat



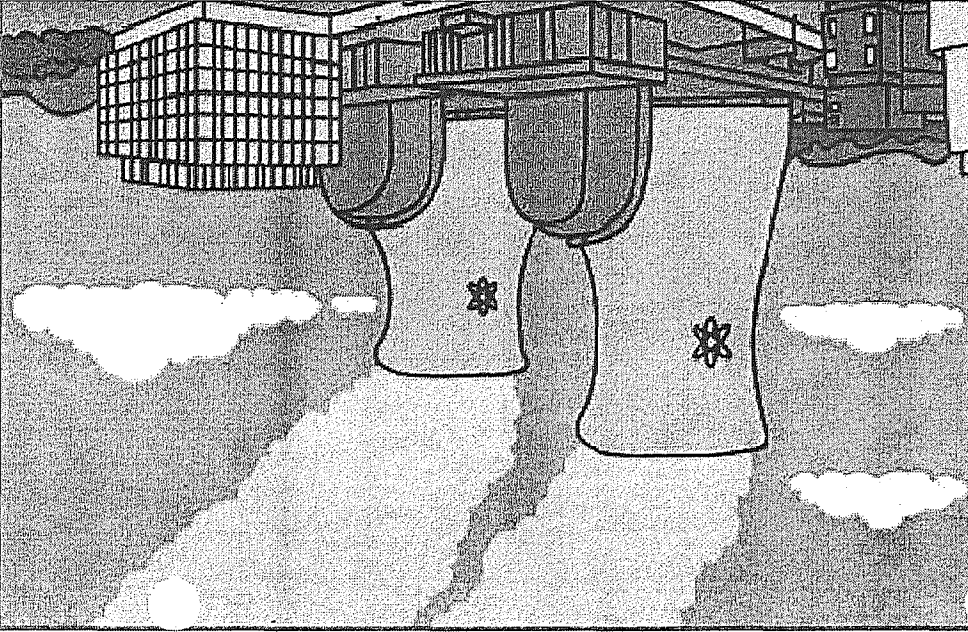
Bicycle

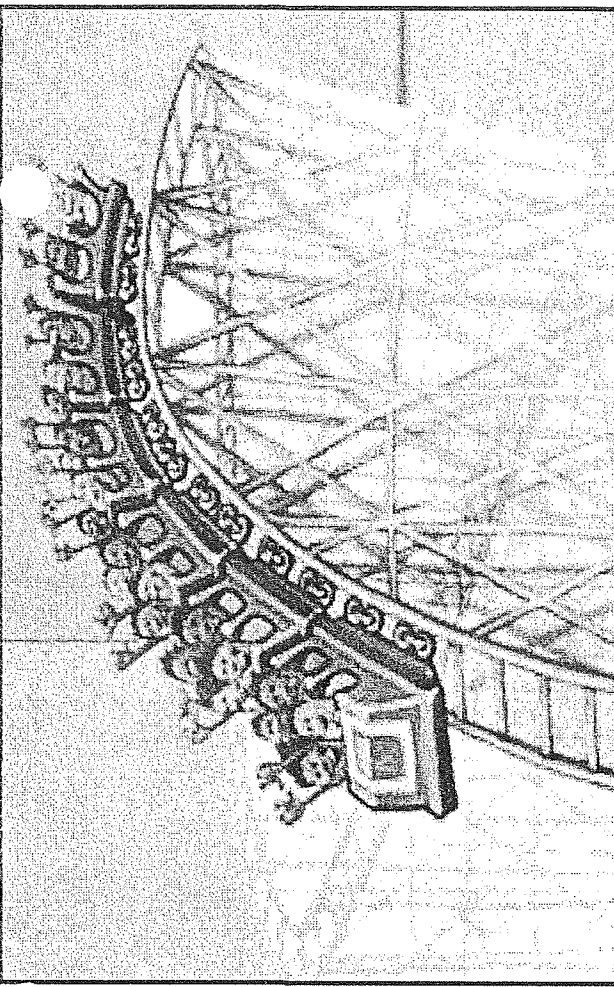


Batteries

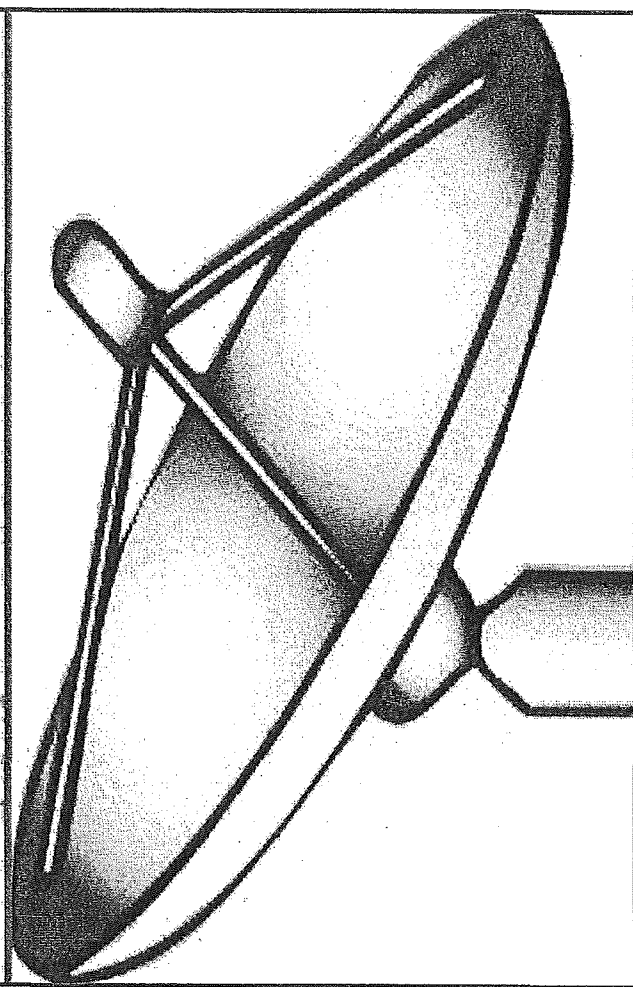


Power Plant

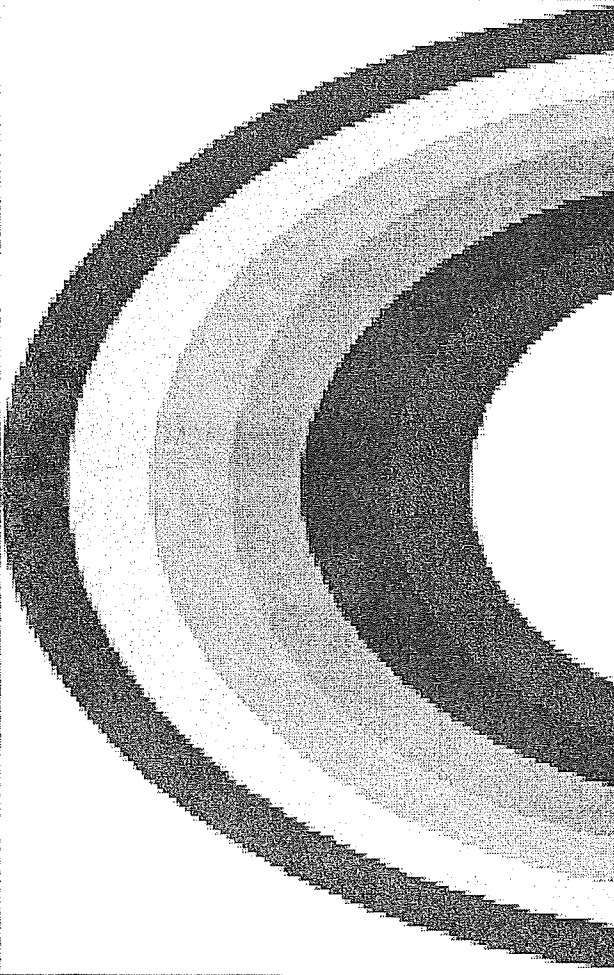




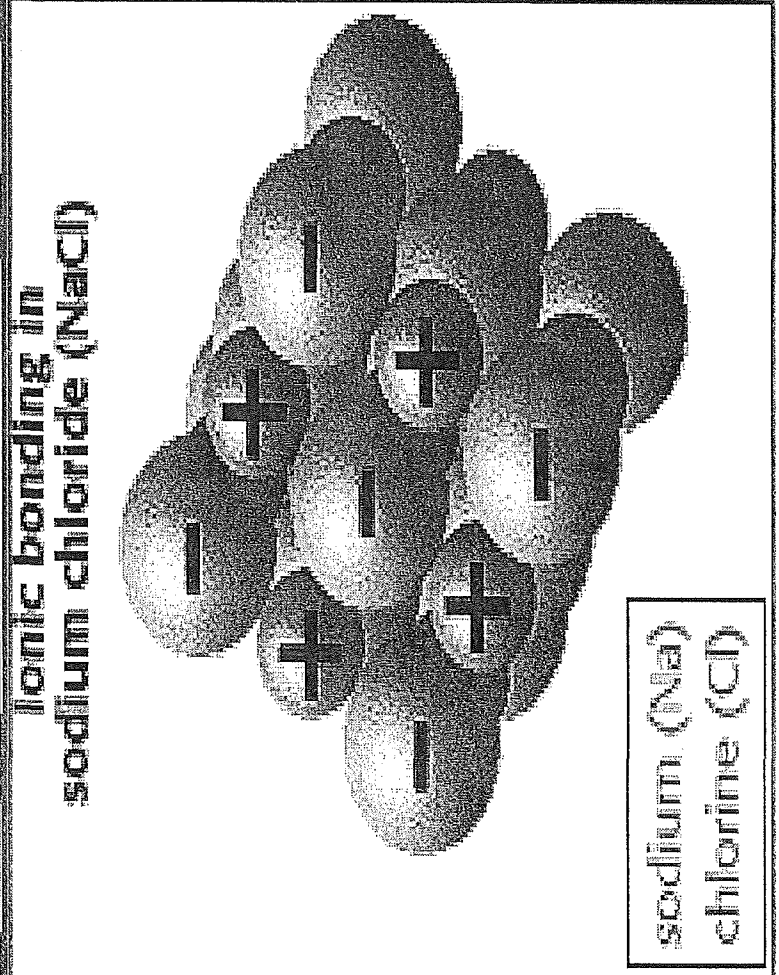
Roller Coaster

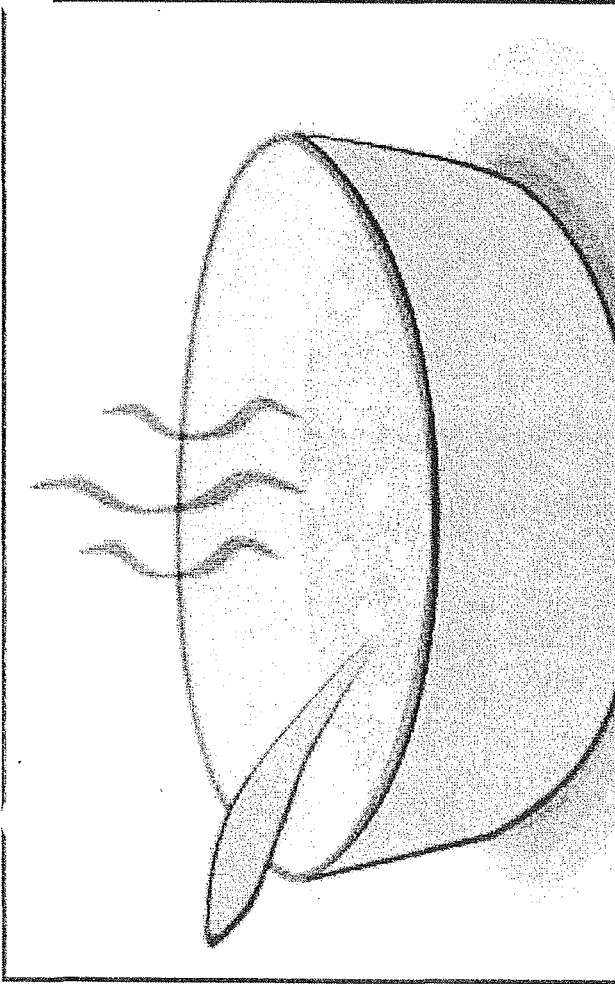


Satellite Dish

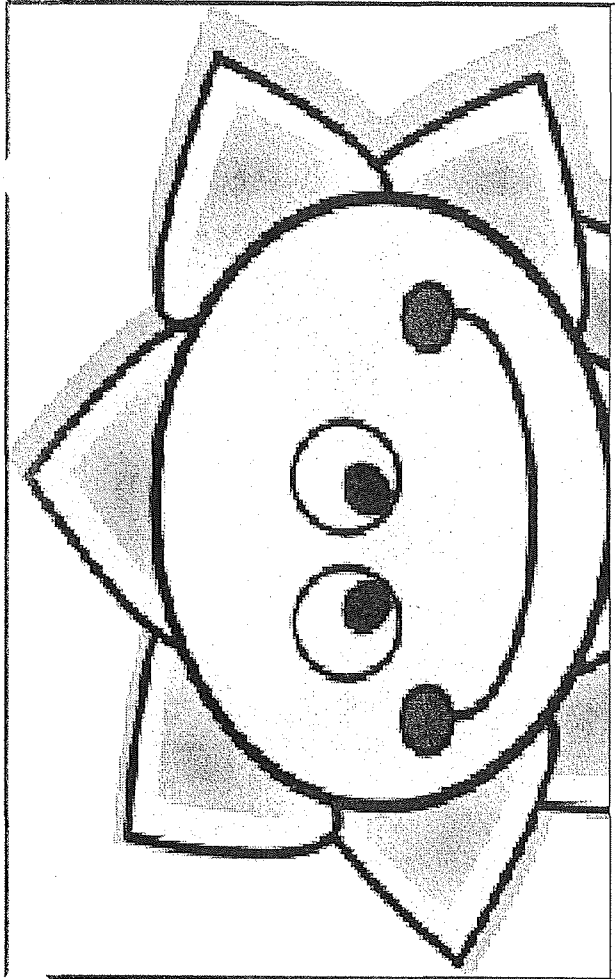


Rainbow

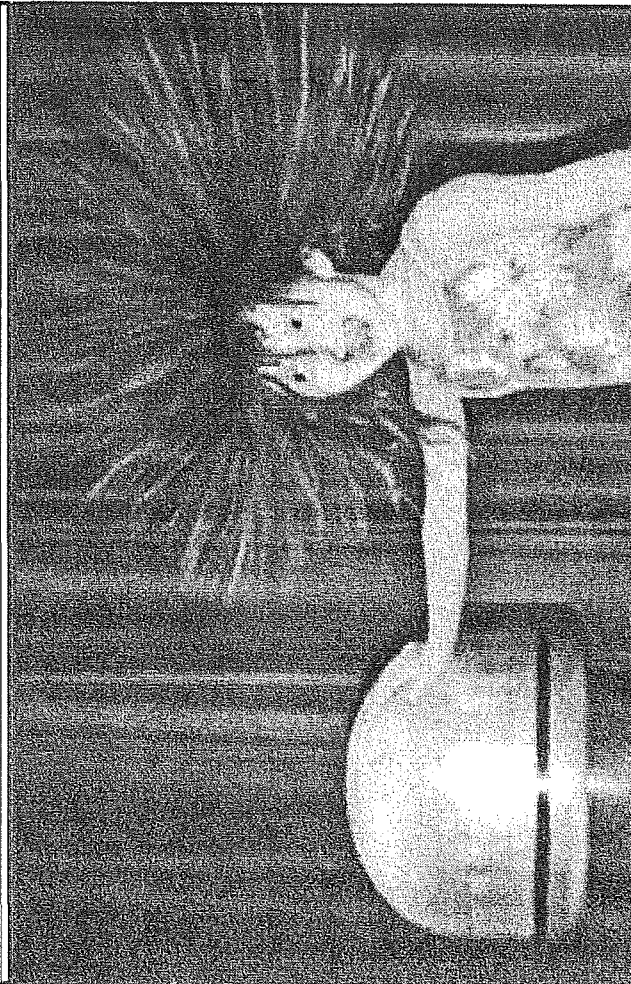




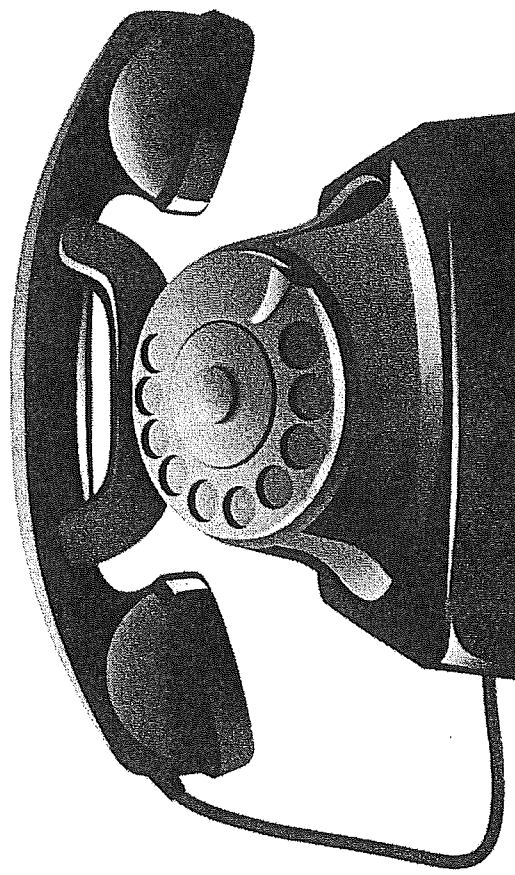
Soup



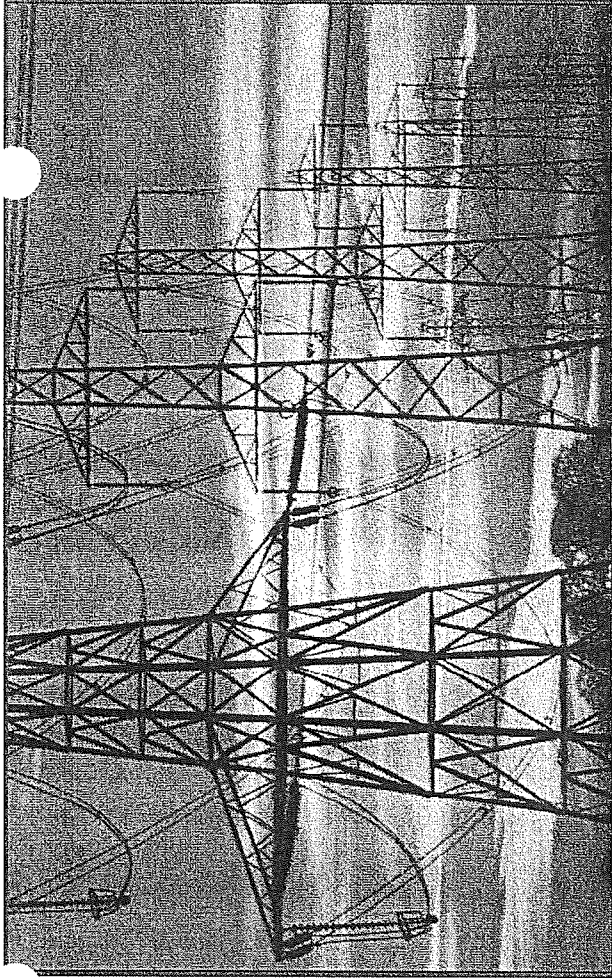
Sun



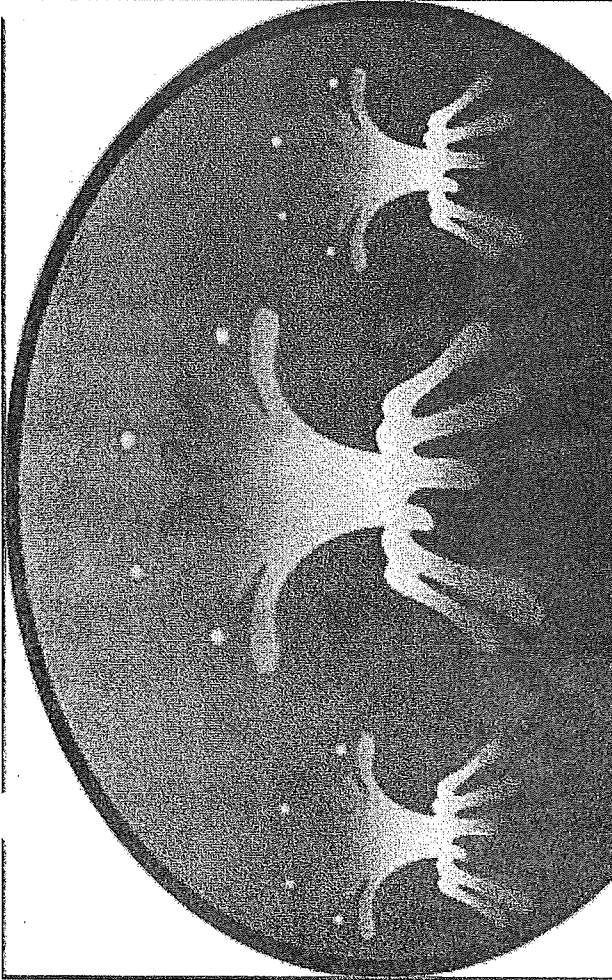
Hair Standing Up



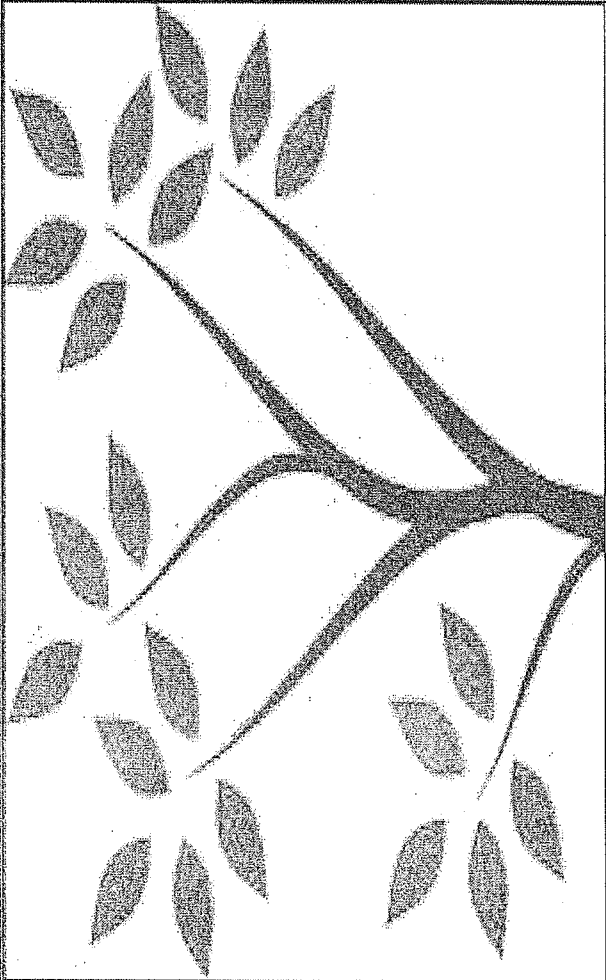
Telephone (ringing)



Power Lines



Erupting Volcanoes



Tree