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# **GARBAGE IN GARBAGE OUT**



#### GARBAGE DISPOSAL

A large, low-lying area used to dispose garbage is known as a dump. A garbage dump is also used as landfill. Garbage collectors collect waste and then dispose it at garbage disposals. Garbage dumps have files, cockroaches and mosquitoes, and later turn into breading grounds for micro-organisms that may cause diseases. That is why these garbage dumps are usually located on the outskirts of a city.

## (a) Components of garbage - Garbage has useful and non-useful components:

Useful garbage components are those that can be decayed easily. The process of decaying is known as composting. Useful garbage components are fruit and vegetable waste, plant and animal waste, tea leaves, coffee grounds and paper. These useful components of garbage are converted into manure in the soil.

Non-useful garbage components include polythene bags, plastics, glass and aluminum foils. These take longer to decay. Decaying of these non-useful components is known as decomposition. When non-useful components decay, they release harmful gases that damage the environment. To avoid the adverse impact, these garbage items are sent for recycling. For example, when leaves bum, they release harmful gases and causes air pollution. Moreover, they lead to asthma and lung diseases. That is why leaves should be buried so as to convert them into manure.

# DID YOU KNOW?

The Indraprastha Park in Delhi is built on a landfill site.

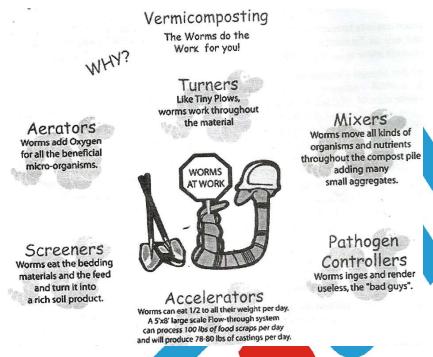
### **VERMICOMPOSTING**

The process of preparing compost with the help of red worms is called vermicomposting. The red worm is a type of earthworm that lives in the soil rich in organic matter, which is a combination of nitrogenrich and carbon-rich material with plenty of moisture and microbes.

- Method of Vermicompositing.
- A vermicomposting pit is made with a wooden box or big cement rings.
- A mesh is spread at the bottom of the pit.
- Vegetable waste, fruit waste paper which is not shiny or coated with plastic, is spread over the mesh
- Water is sprinkled to create moisture so that the redworms can live.
- A vermicomposting pit takes nearly two to four weeks to completely convert waste into manure.
- Waste material that is rich in oils, salt, meat and vinegar stops the growth of red worms.

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These red worms have a special structure called gizzards with which they grind food material.
A red worm eats food equal to its weight every day. Red worms do not survive in too hot or too cold conditions.



#### RECYCLING OF PAPER AND PLASTICS

It is important to reuse things than discarding them as waste. Industries use recycled or waste paper to regenerate paper. Paper that is suitable for recycling is called "scrap paper". You can recycle old newspapers, magazines, notebooks and used envelopes, but not waxed paper, oil-soaked paper, paper contaminated with food, carbon paper, thermal fax paper, plastic laminated paper, stickers, and sanitary products or tissues.

#### (a) Steps involved in Recycling paper

- Tear paper into small pieces.
- Soak these pieces in water for a day.
- Make a thick paste and spread it on a net or sieve.
- Let water drain off completely.
- Use an old cloth or newspaper to remove the extra water from the paste and dry it.
- Use this paste to get beautiful patterns.

# (b) Disadvantages of using of polythene bags

- We use many plastic items such as tooth brush, combs, containers, bottles, shoes, toys, wires, frames and bags every day but using plastic is very harmful in terms of health and as well as the environment.
- Plastics are not suitable for storing cooked food because they emit harmful chemicals when they are exposed to high temperatures.

- Using plastics causes health problems such as heart disease, diabetes and reproductive dysfunction.
- Harmful gases are emitted from burning plastics, which cause cancer and they kill living beings.
- That is why plastics should be disposed in the right way.
- Plastics thrown casually get into drains and sewages, often blocking the way and causingwater-logging.
- So polythene bags should not be used for garbage disposal.

TIME TAKEN BY WASTE MATERIALS TO DECOMPOSE		
1	Vegetable matter banana peel	3-4 weeks
2	Newspapers	4 weeks
3	Cloth bag	5-6 months
4	Wood pieces	10-15 years
5	Aluminium cans	200-500 years
6	Glass bottles	1 million years
7	Plastic bags	1 million years

### MEASURES TAKEN TO PREVENT THE DANGEROUS EFFECTS OF PLASTICS

Reduce, reuse and recycle plastics."

Carry jute or cloth bags for shopping"

Do not store food items in plastic bags."

Do not burn plastic items.

Recycle plastics so that new plastic items can be made.

Waste that does not decompose should be put in blue dustbins, while waste the decomposes easily should be put in green dustbins."