



SNS COLLEGE OF TECHNOLOGY

Vazhiampalayam, Coimbatore-35

(An Autonomous institution)

Accredited by **NBA-AICTE** and Re-Accredited by **NAAC-UGC with A+ Grade**

Approved by **AICTE**, New Delhi & Affiliated to **Anna University**, Chennai



DEPARTMENT OF CHEMISTRY

**COURSE NAME : 23CHT103- ENVIRONMENTAL SCIENCE AND
SUSTAINABILITY**

I YEAR / I SEMESTER

UNIT : 1. ENVIRONMENT AND BIODIVERSITY

TOPIC : 2.ENERGY FLOW



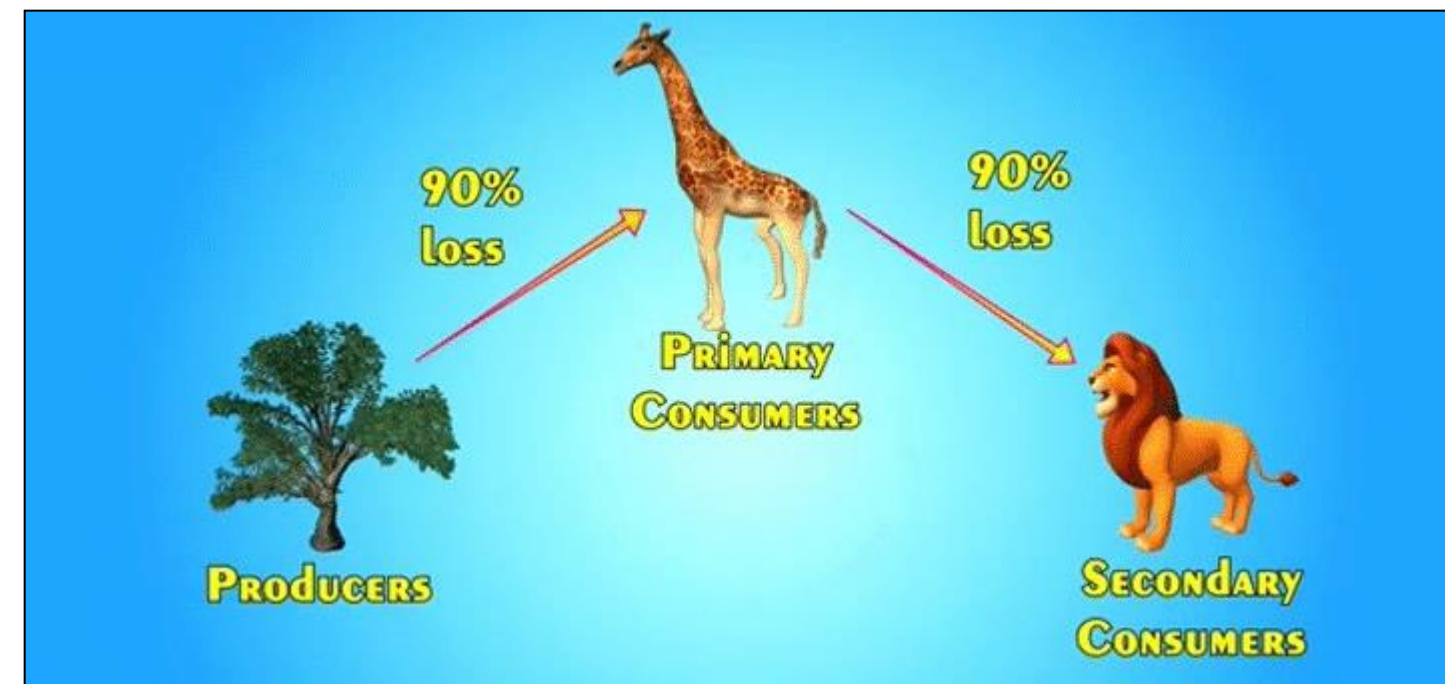
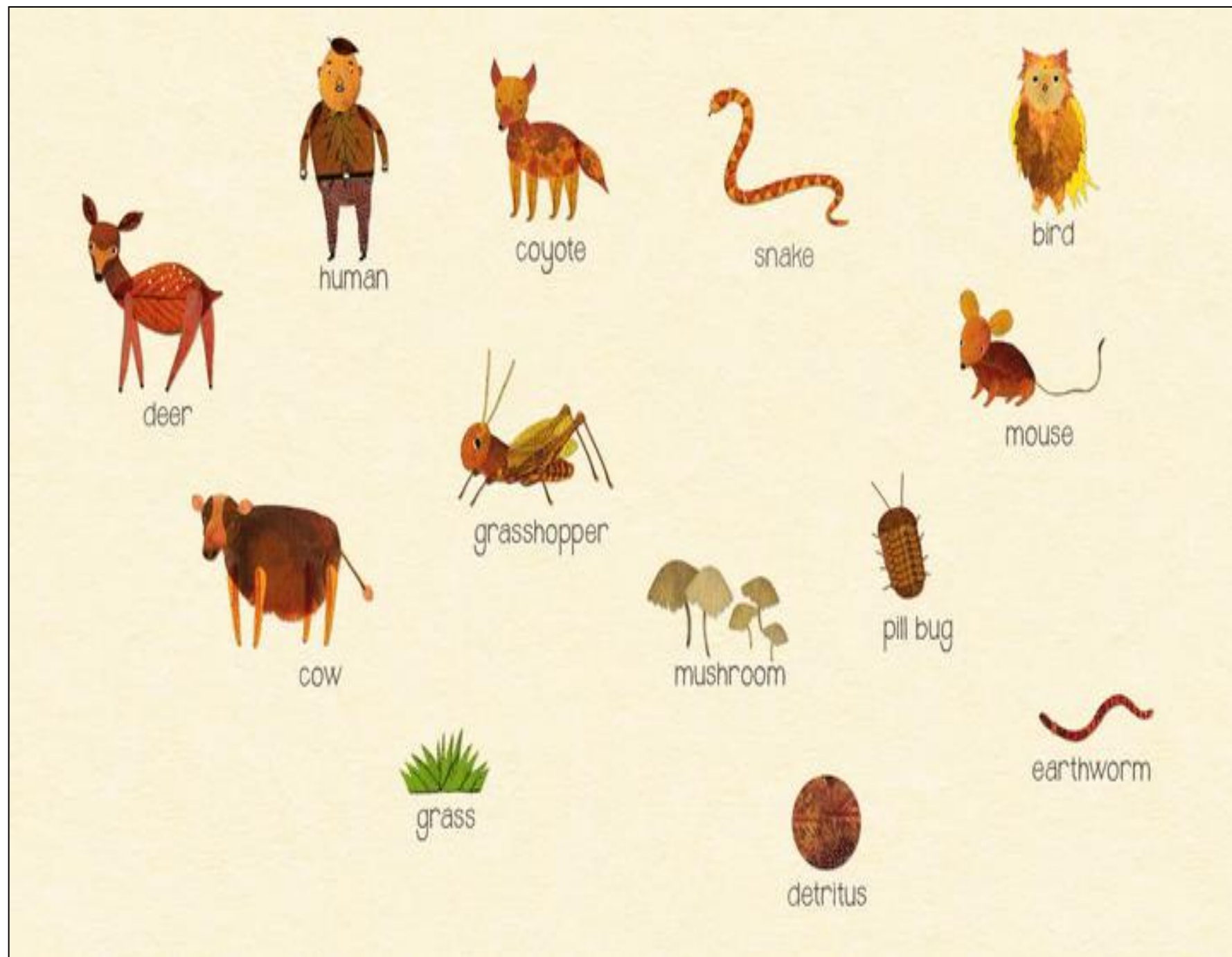
BRAINSTORMING WITH RECAP





FOOD CHAIN

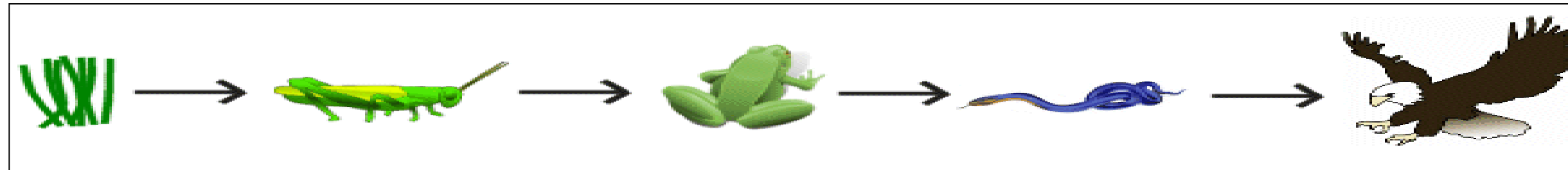
The sequence of eating and being eaten in an ecosystem



Transfer of food energy from the plants through a series of organisms



FC IN GRASS LAND



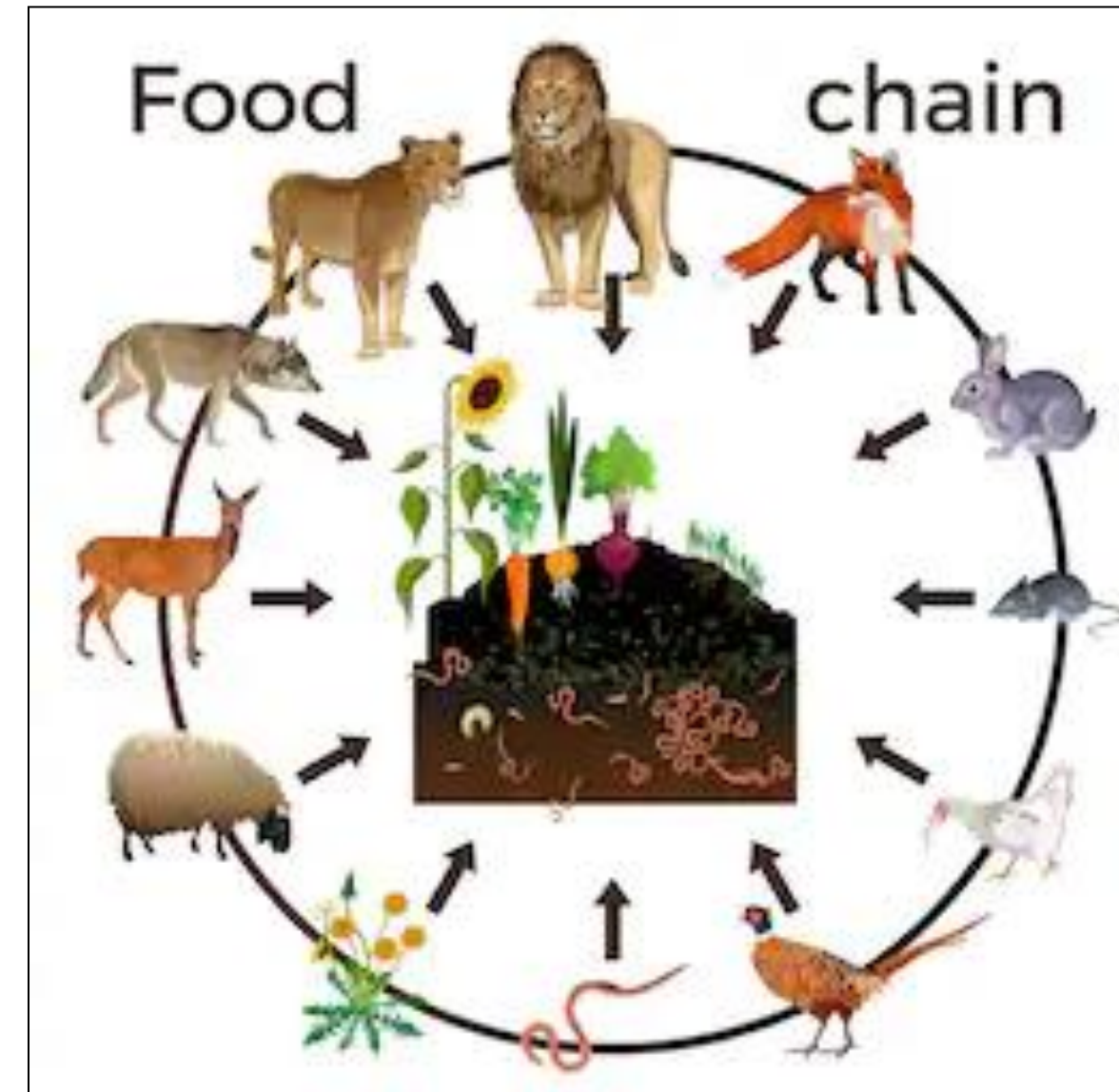
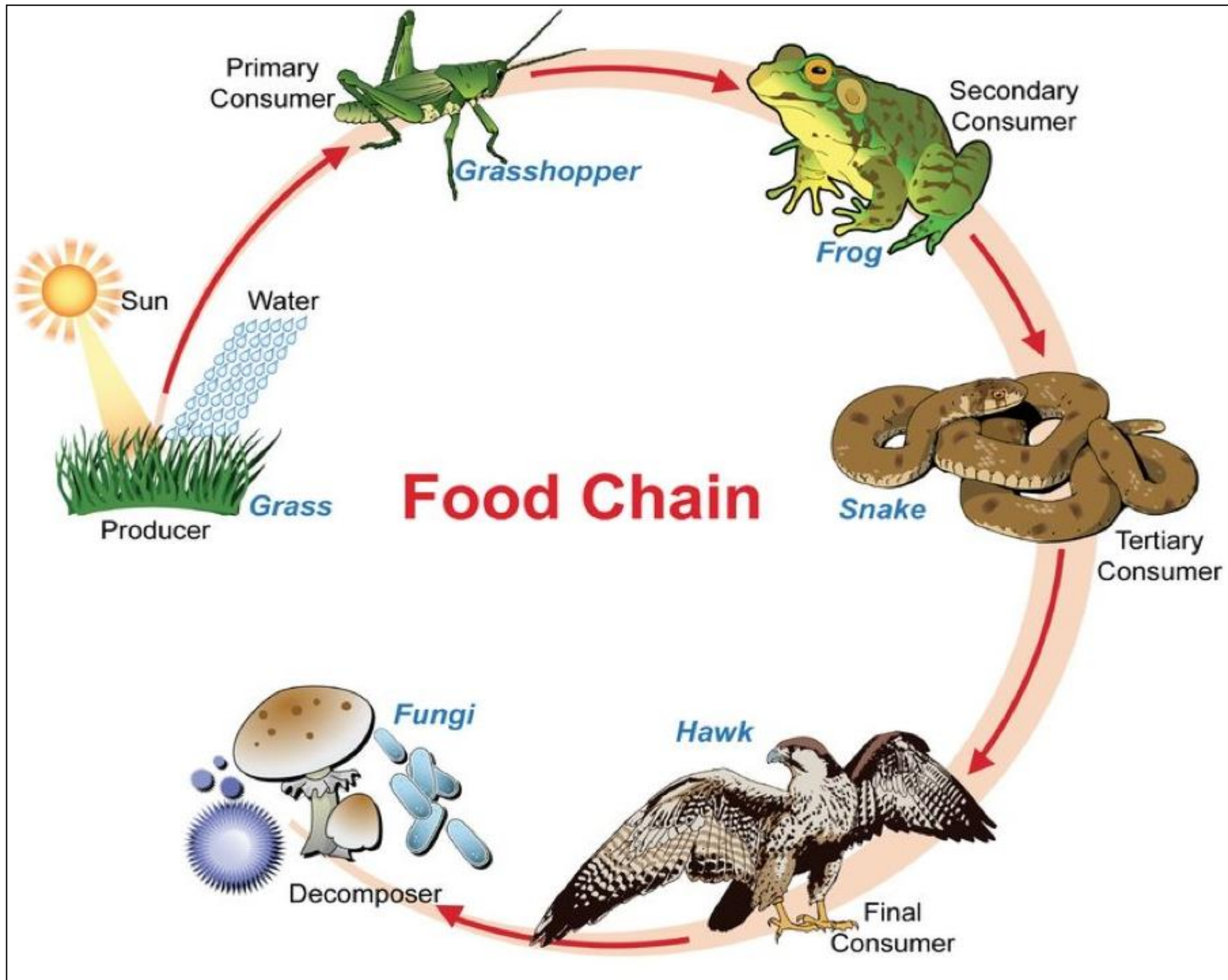


FC IN POND





FC IN FOREST

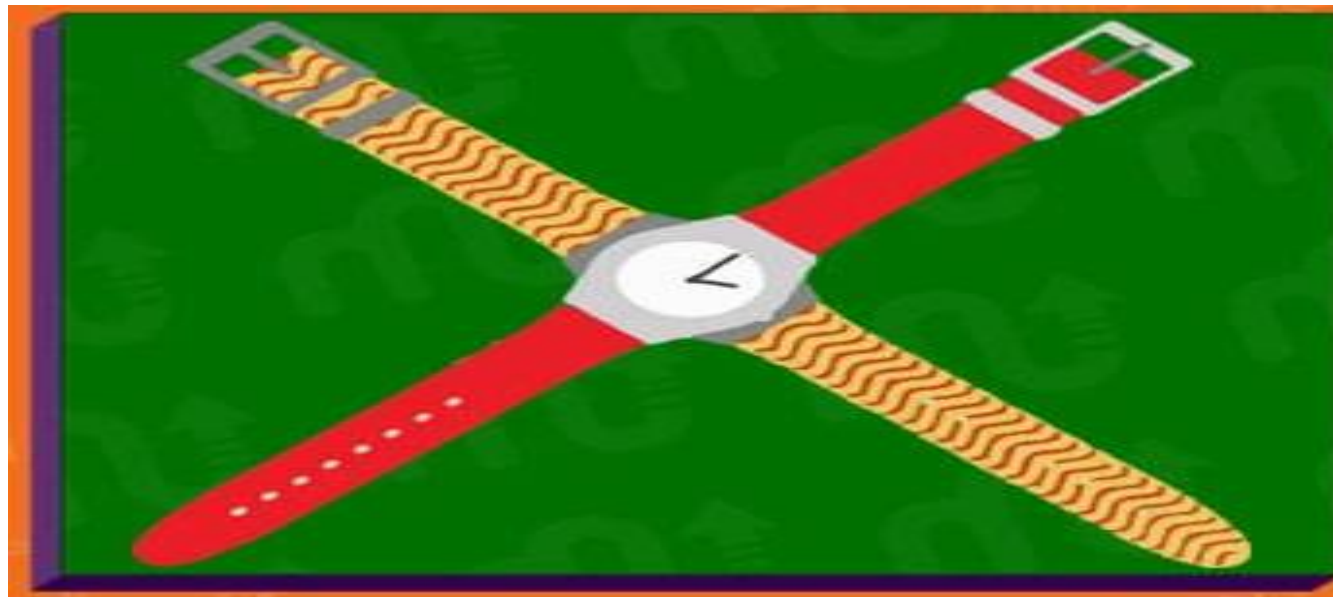




Activity

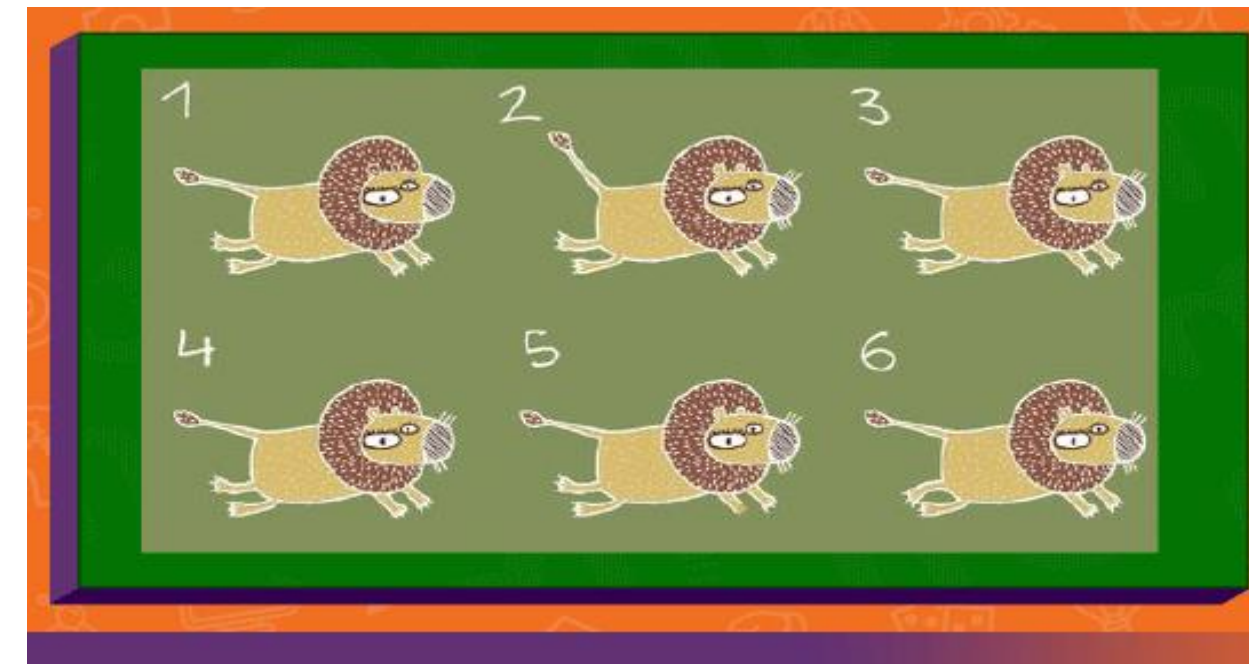


- Sophie and Caroline made arrangements to meet at a cafe at 2 p.m. Sophie thinks her watch is 25 minutes fast, although it is 10 minutes delayed. Caroline thinks her watch is 10 minutes slow, while it is 5 minutes soon. What will happen if they both aim to arrive precisely on time? □



Ans : Sophie will be 35 minutes late. Caroline will arrive at 1:45 P.M, 15 minutes ahead of time.

- Find the same lion



Ans : 3 & 4

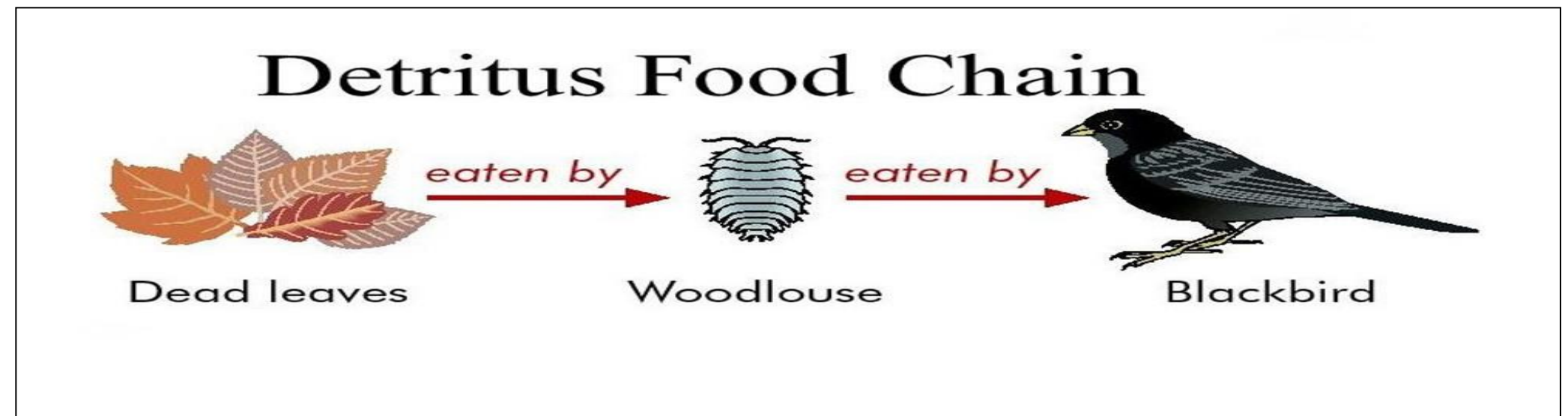


TYPES OF FOOD CHAIN



Grazing: grass to decomposers

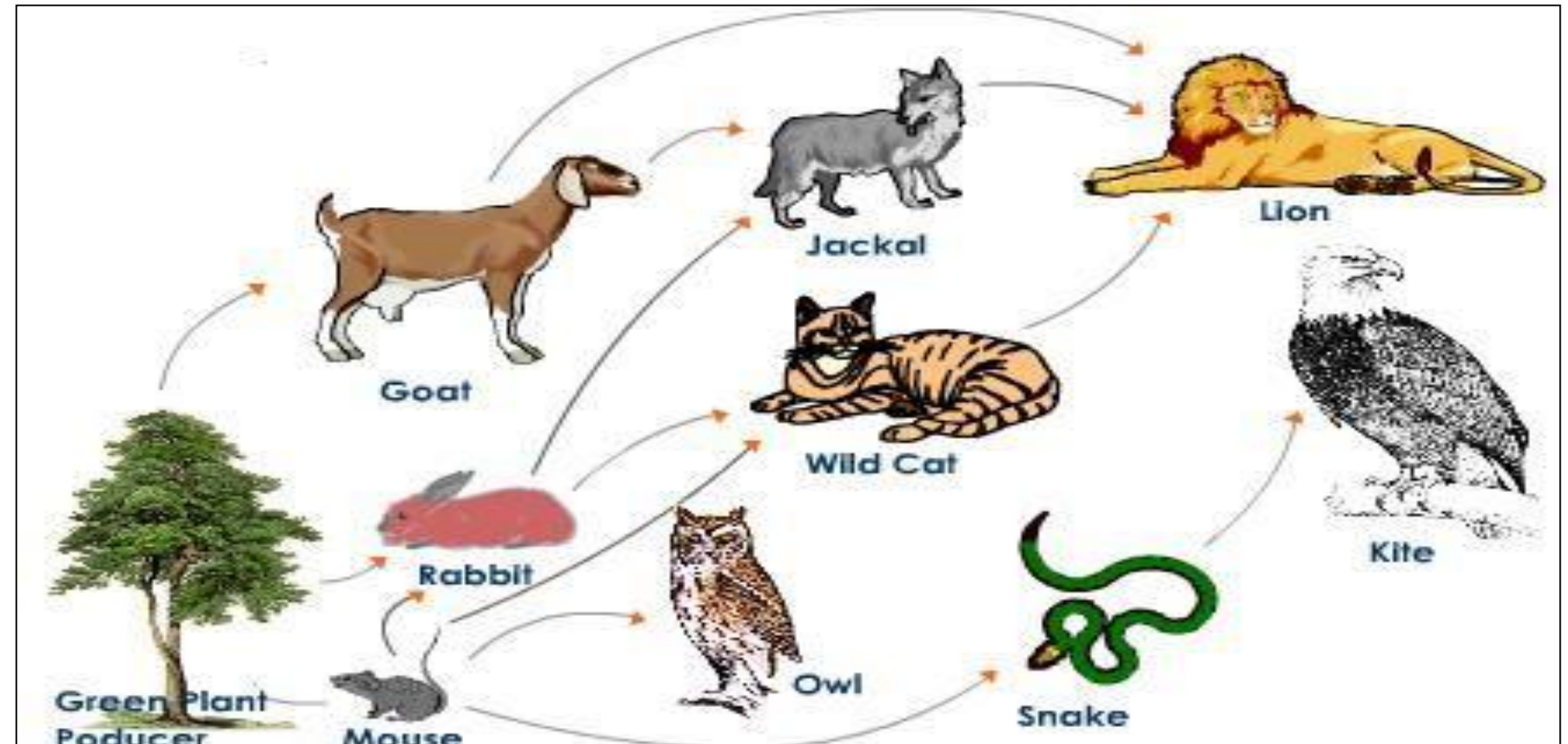
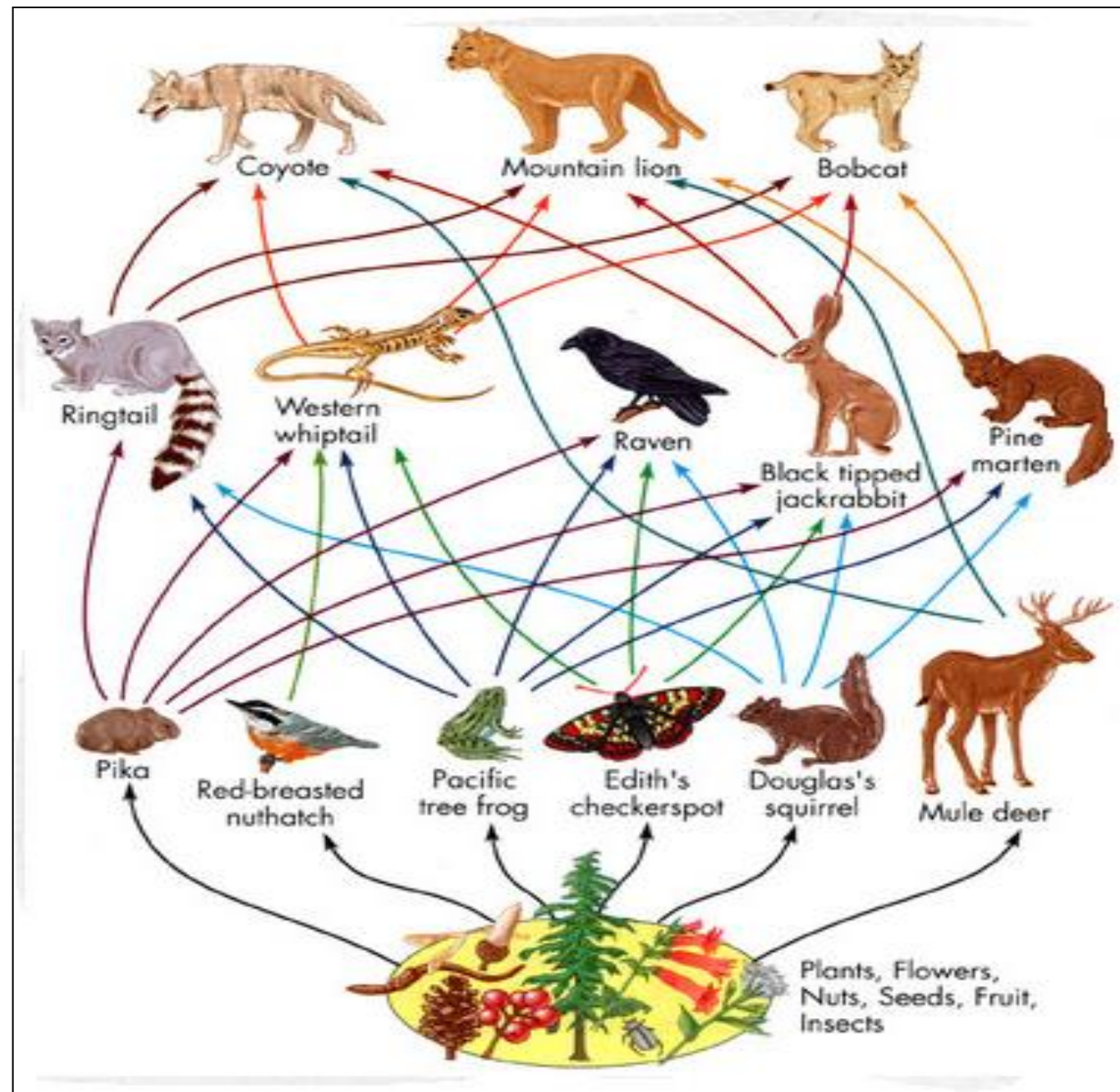
Detritus: Dead organic matter to decomposers





FOOD WEB

The interlocking pattern of various food chain in an ecosystem



BIOMAGNIFICATION: Conc. of the non biodegradable materials keep on increasing at each trophic level



ASSESSMENT



- **Draw flow chart for various food chain**

- **Draw flow chart for food web.**



SUMMARY



REFERENCES



1. Dr. A.Ravikrishnan, Environmental science & Engineering” Srikrishna hitech Pub. Co. Ltd,2013.
2. G.Tayer Miller :Environmental Science”, Cenage Learning India Pvt Ltd, 2011.
3. Benny joseph, “Environmental science & engineering” Tata McGraw-Hill.Pub.Co.Ltd. New Delhi.2009.