

D.A.V. PUBLIC SCHOOL, VELACHERY, CHENNAI-42

CLASS : X

SUBJECT: BIOLOGY

CHAPTER: 15 OUR ENVIRONMENT

ACTIVITY: ROLE PLAY- FOOD WEB

METHODOLOGY OF ACTIVITY:

- The class can be divided into different ecosystems such as desert ecosystem, grassland ecosystem, marine ecosystem, mountain ecosystem and forest ecosystem.
- Each student of a particular ecosystem will identify themselves as different trophic level of organism such as producer, primary consumer, secondary consumer, tertiary consumer, decomposers and scavengers.
- The students show the interlinking in the food web by holding a piece of rope with other organisms.
- The interlinking enables them to understand the different trophic levels of organisms and also how energy is transferred between these organisms.
- Time will be given for each member of the group to share their role and inform their part in the food web.
- After discussing the food web, find out what would happen if a species was removed from the web. Have a student to pull on the strings they hold; anyone who feels a tug represents how it directly affects that organism. Those “organisms” affected directly could then pull on their strings and more organisms are affected.
- When the “sun” pulls on its string, everyone will be affected.
- Some students drop their string (become extinct) and discuss the reasons for their extinction and list how other organisms are affected by it.

CURIOSITY QUESTIONS:

How do threats to the environment cause changes in the ecosystem?

ANSWER GUIDE:

Think About

- Name the largest group in the ecosystem.
- Does loss of one organism in a food web affect the ecosystem?
- How is the energy transferred in an ecosystem?