

SNS COLLEGE OF TECHNOLOGY

Vazhiamyampalayam, 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 PHYSICS

COURSE NAME : 23CHT103 ENVIORNMENTAL SCIENCE AND SUSTAINABLITY

I YEAR / I SEMESTER

UNIT : 1. ECO SYSTEM





BRAINSTORMING WITH RECAP

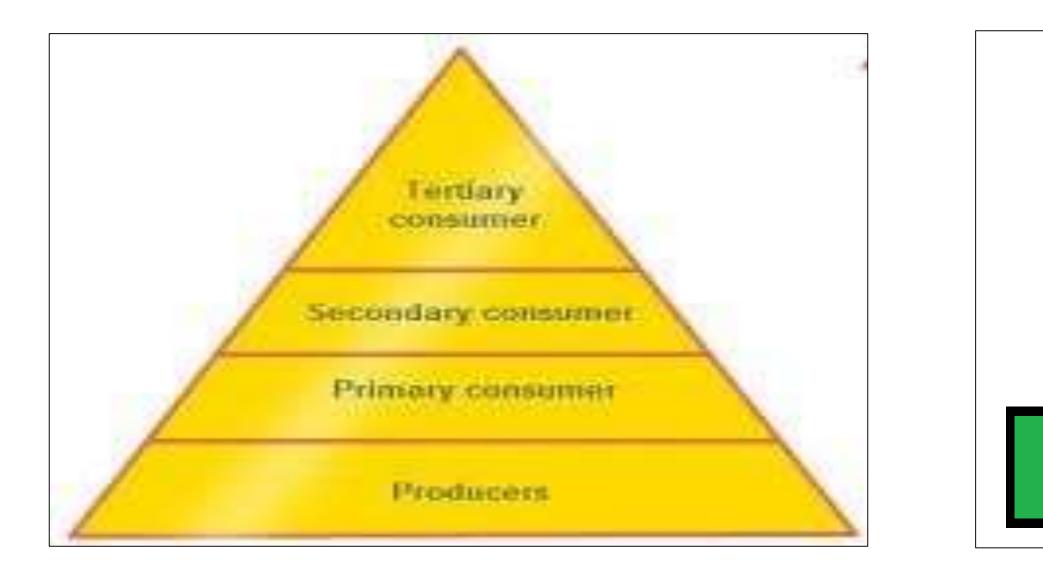




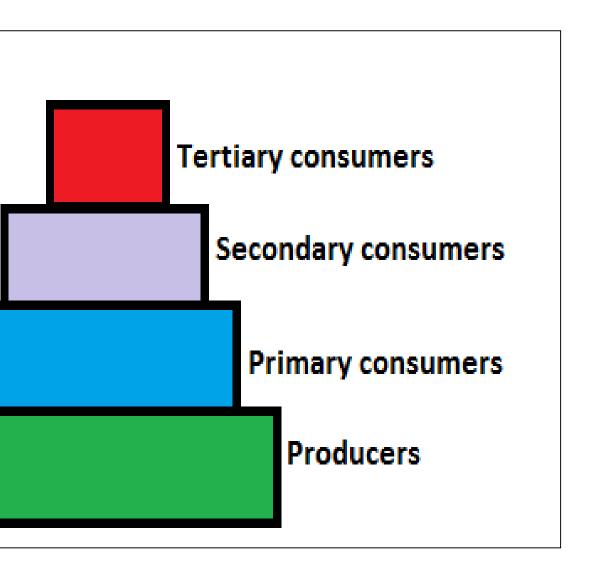


INTRODUCTION TO ECOLOGICAL PYRAMIDS

The graphical representation of structure and function of tropical level of an ecosystem

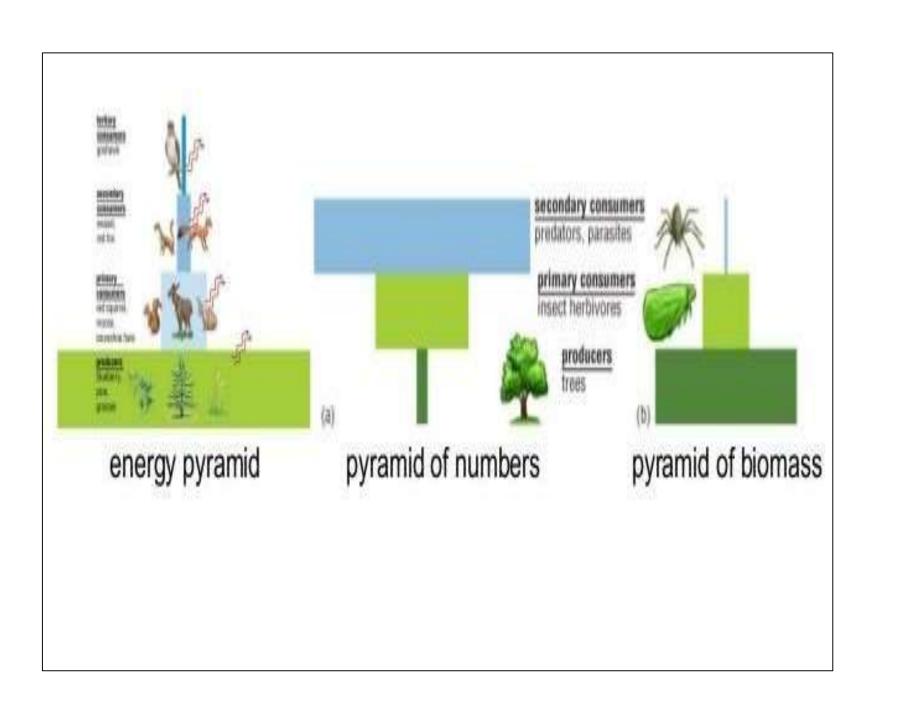


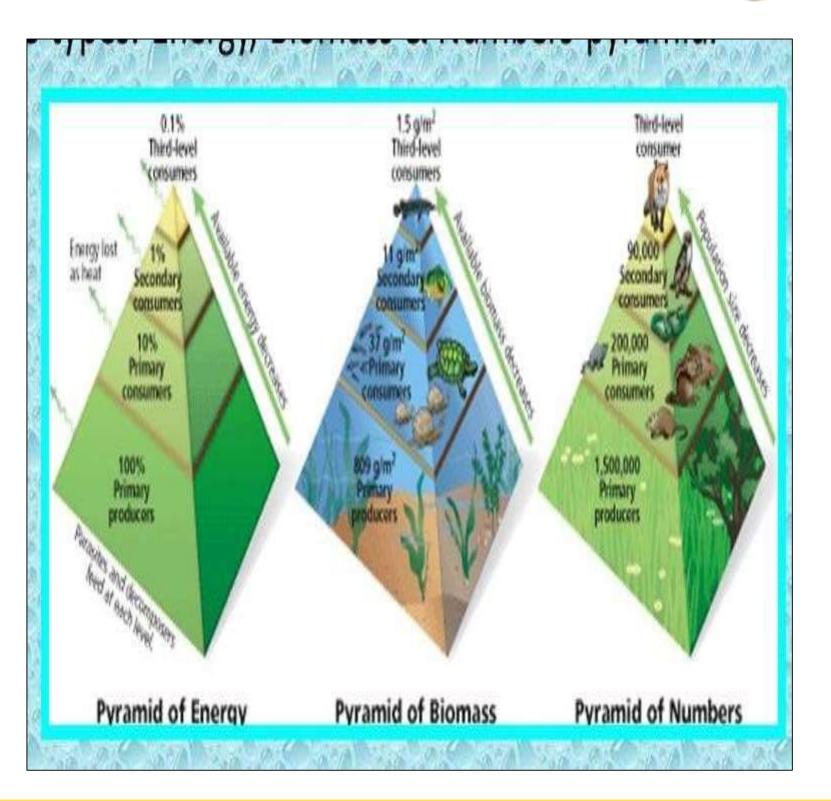






TYPES OF ECOLOGICAL PYRAMIDS





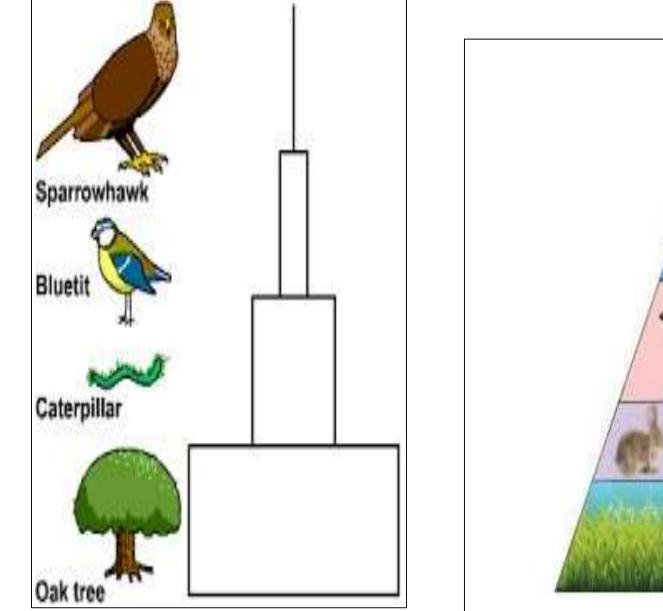


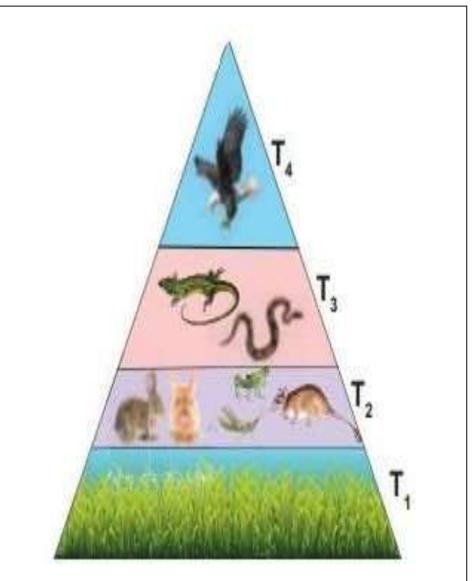




1. PYRAMID OF NUMBER

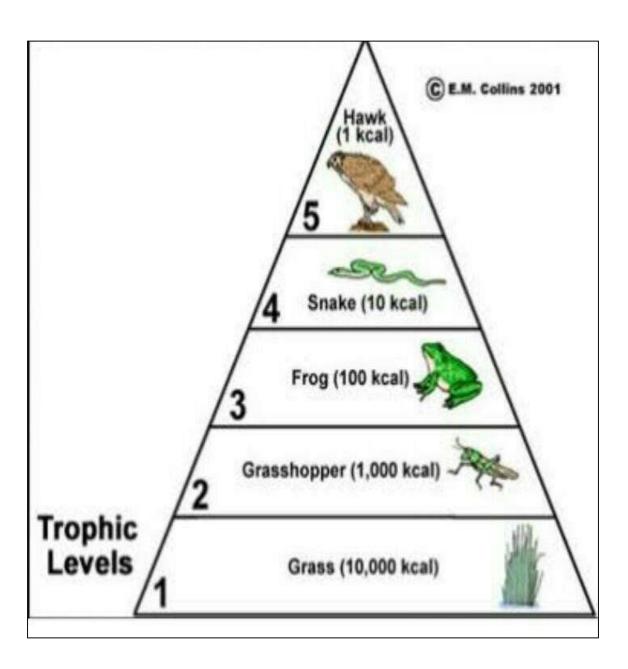
It represents the number of individual organisms present in the each tropical levels







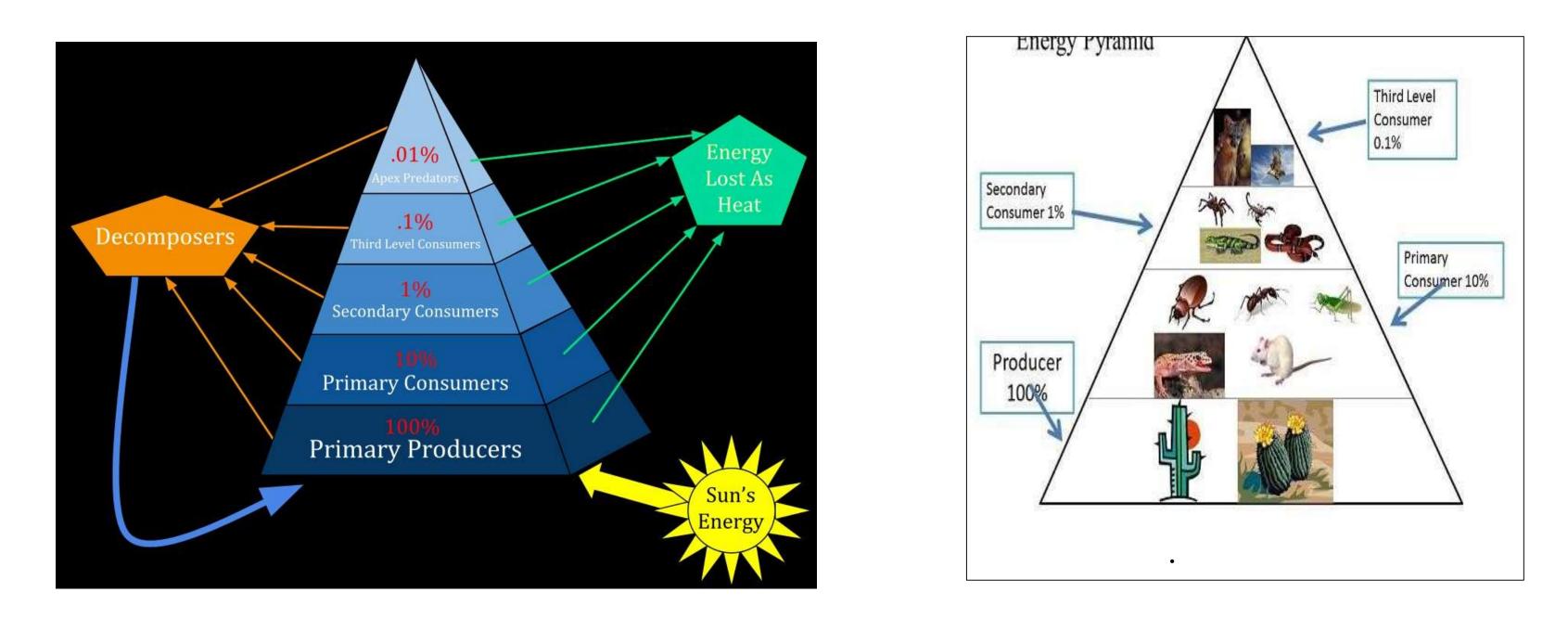






2. PYRAMIDS OF ENERGY

It represents amount of energy present in the each tropical levels



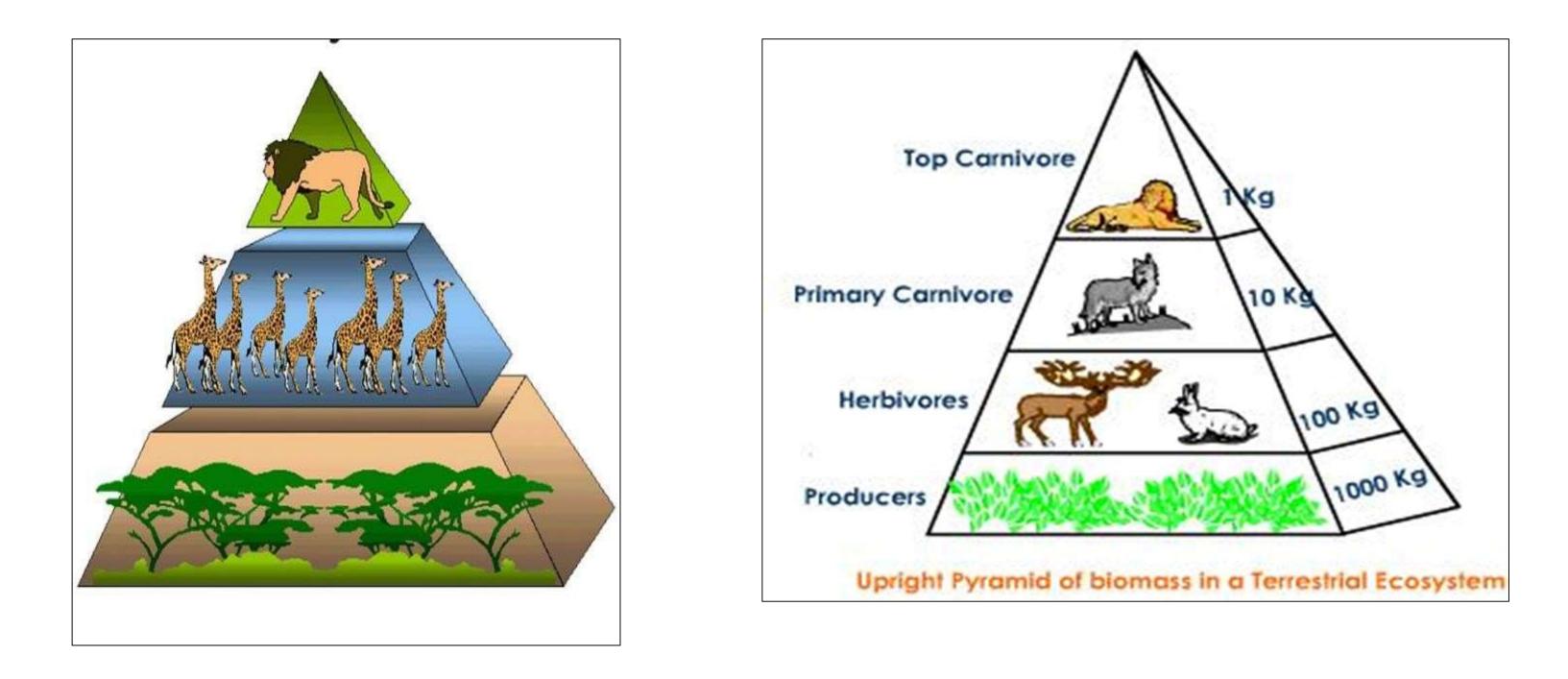






3. PYRAMIDS OF BIOMASS

It represents amount of livings present in the each tropical levels

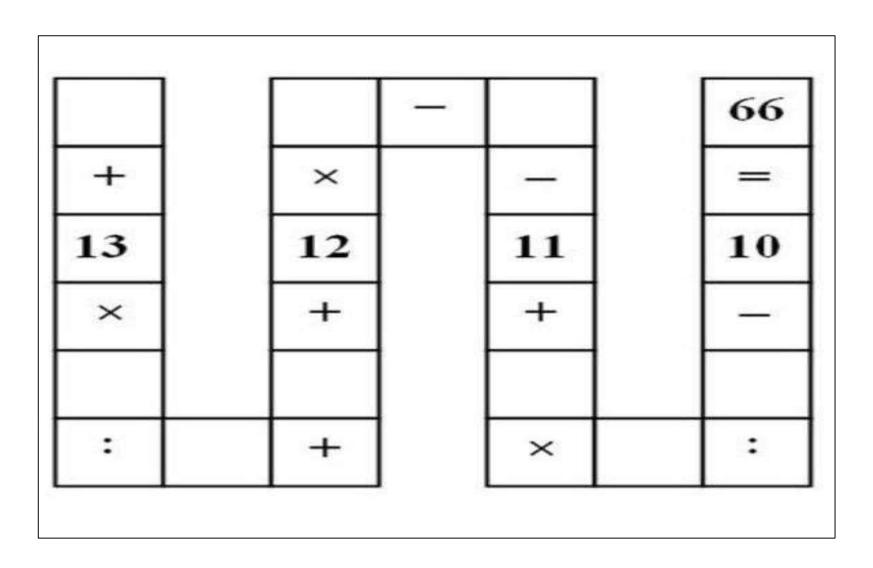








Can you do this math Sudoku?





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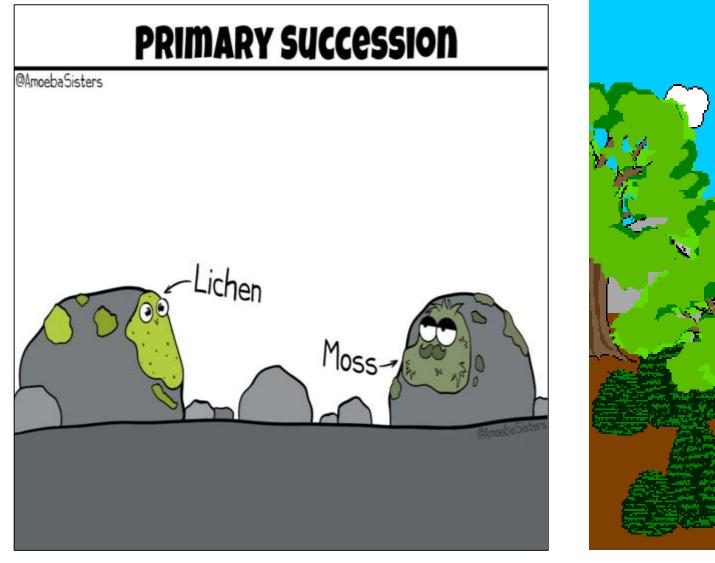
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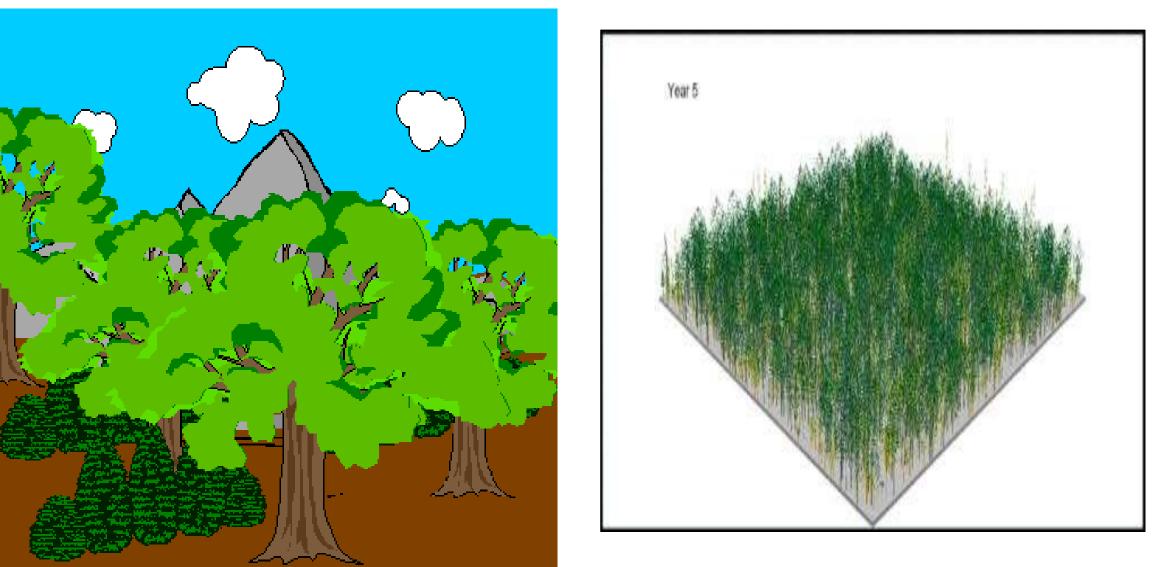


ECOLOGICAL SUCCESSION

Continuous /progressive replacement of a community by another community till the stable community develops

in a particular area.





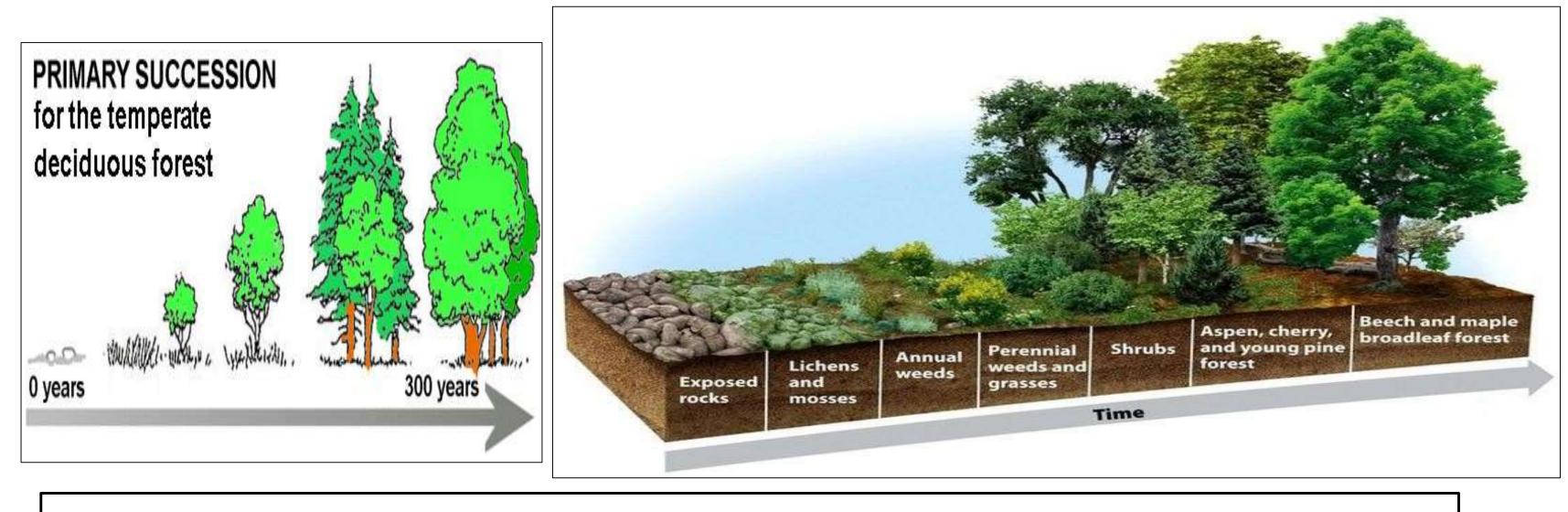






PRIMARY SUCCESSION

Primary succession(Pioneer) : Gradual development of life on a lifeless/bare area •



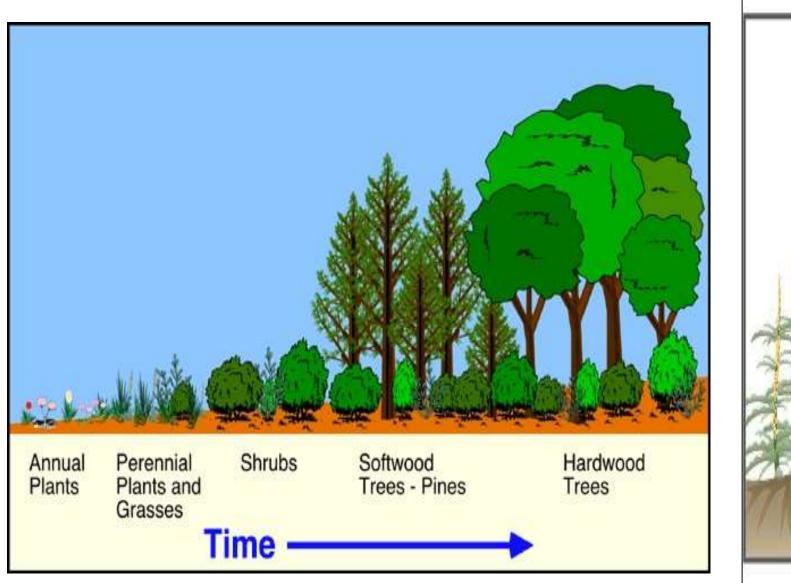
- Hydrarch/Hydrosere- Establishment starts from watery area. ullet
- **Xerarch/Xerosere** Establishment starts from dry area. \bullet

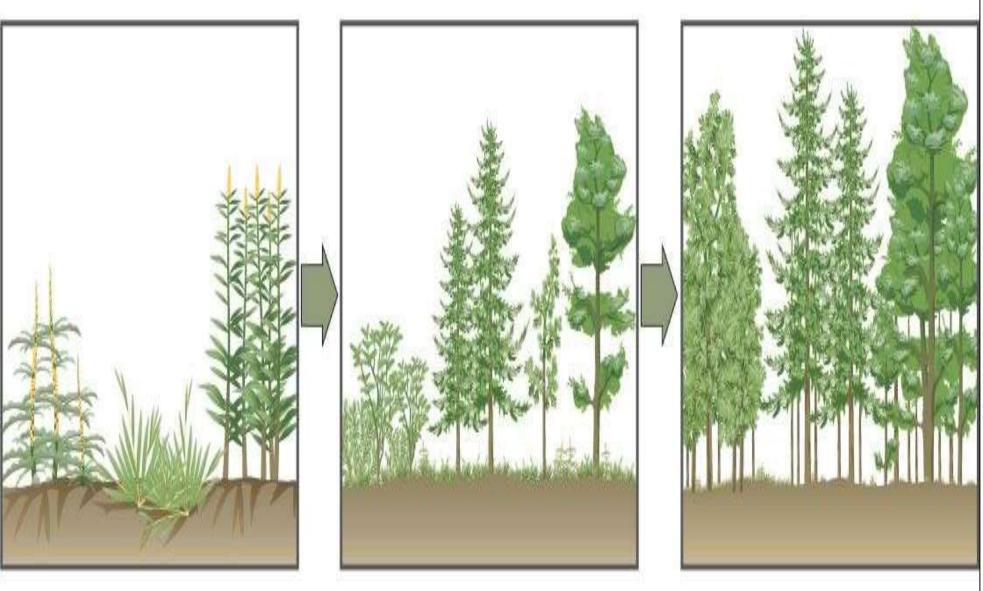




SECONDARY SUCCESSION

Secondary succession (Seres/Seral): Gradual development of life on a life area \bullet







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ECOLOGICAL SUCCESSION PROCESS

- 1. Nudation Development of bare area
- **Invasion** Establishment of one or more life by

Migration: seeds brought by wind water or birds

Establishment: seeds germination and grow of plants Leads to pioneer community

- **Competition-** competition between same or different species for food, water and nutrients. 3.
- **4. Reaction** The various development stage.
- 5. Stabilization leads to stable community with environment.

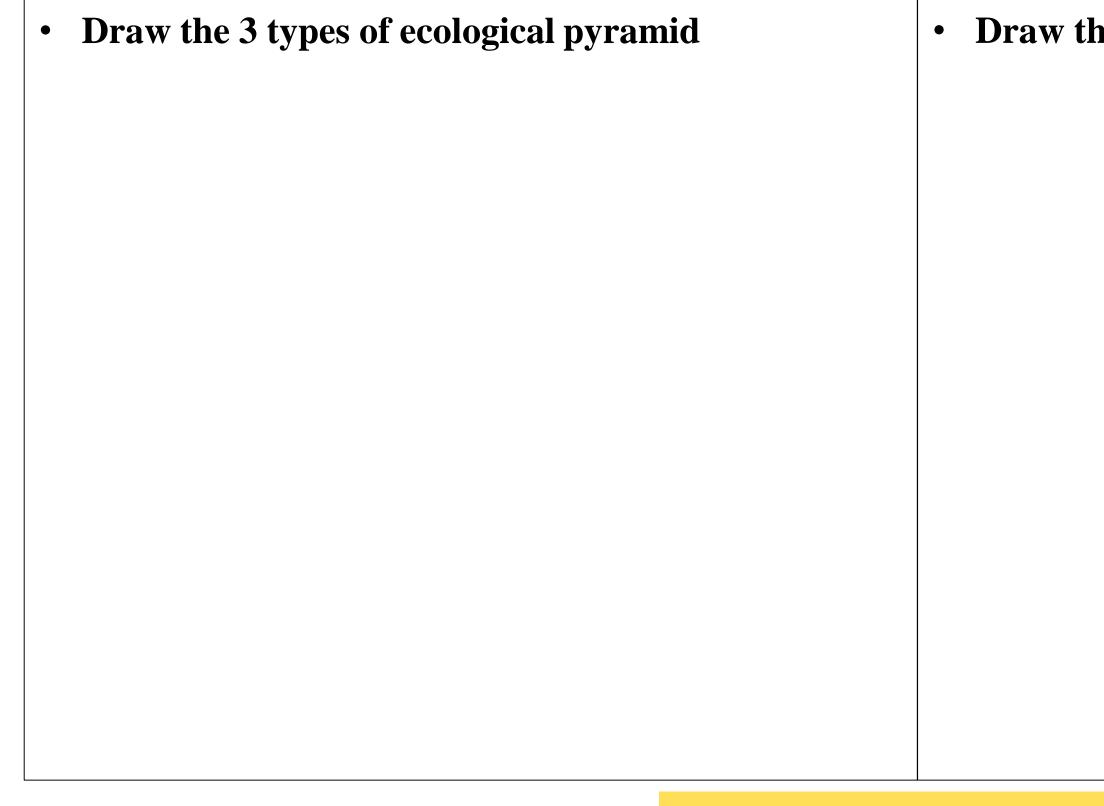




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ASSESSMENT







Draw the mind map for ecological succession



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.



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