

BEEd IVth year

OP 4.3 Pedagogy of Natural Science

Task for revision

Children's Ideas about Photosynthesis and chlorophyll

- Photosynthesis is a substance
- It is a kind of plant's respiration
- Photosynthesis is a process plants perform for the benefit of individuals
- Chlorophyll is a substance that makes plants strong. It is vital to plants, as blood is for humans
- Chlorophyll attracts sunlight and absorbs carbon dioxide
- It is a food substance
- It is just there to make leaves green and attractive.

Above are some ideas listed from the research literature on alternative framework. You must have come across similar ideas of children during your middle school internship.

Choose any one concept from the middle school science teaching. Identify two / three alternate conceptions (Children's Ideas) on any one particular concept.

Also, research about children's conception from the review of work done in this area. (Please Refer to the book Making Sense of Secondary Science by Driver et al)

The conceptions which you had come across during internship, are those similar to that found in research literature?

For addressing those misconceptions design two activities to challenge children's alternate Framework.