

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

EXPERIENTIAL LEARNING

CLASS: IX

SUBJECT: BIOLOGY

CHAPTER: 14: NATURAL RESOURCES

METHODOLOGY OF THE ACTIVITY: OUTDOOR GAME

- This activity can be done as a recapitulation at the end of the chapter.
- The students will be taken to an open area for this activity.
- Three areas on the playground will be designated as Lithosphere, Hydrosphere and Atmosphere by drawing circles.
- Water cycle: The teacher will assign a student to play the role of a water molecule. Starting from any sphere, the student should move to the next sphere on teacher's instruction. For example, if the student is in 'hydrosphere', after hearing the teacher saying "evaporation" he will move to 'atmosphere' and so on.
- Continue the game until the student has cycled through every sphere.
- If the student has moved into a wrong sphere, he/ she is considered as 'out'.
- The teacher will repeat the activity with other students for other biogeochemical cycles.

QUESTION:

1. Is life possible on Earth without the biogeochemical cycles?

ANSWER GUIDE:

THINK ABOUT:

- What would happen if the water cycle stopped?
- How does nitrogen help plants to grow?
- Why is carbon essential for our survival?
- How do plants help in the respiration in living beings?
- Why are biogeochemical cycles crucial for functioning of the ecosystem?