

# Matter Cycles

Name:

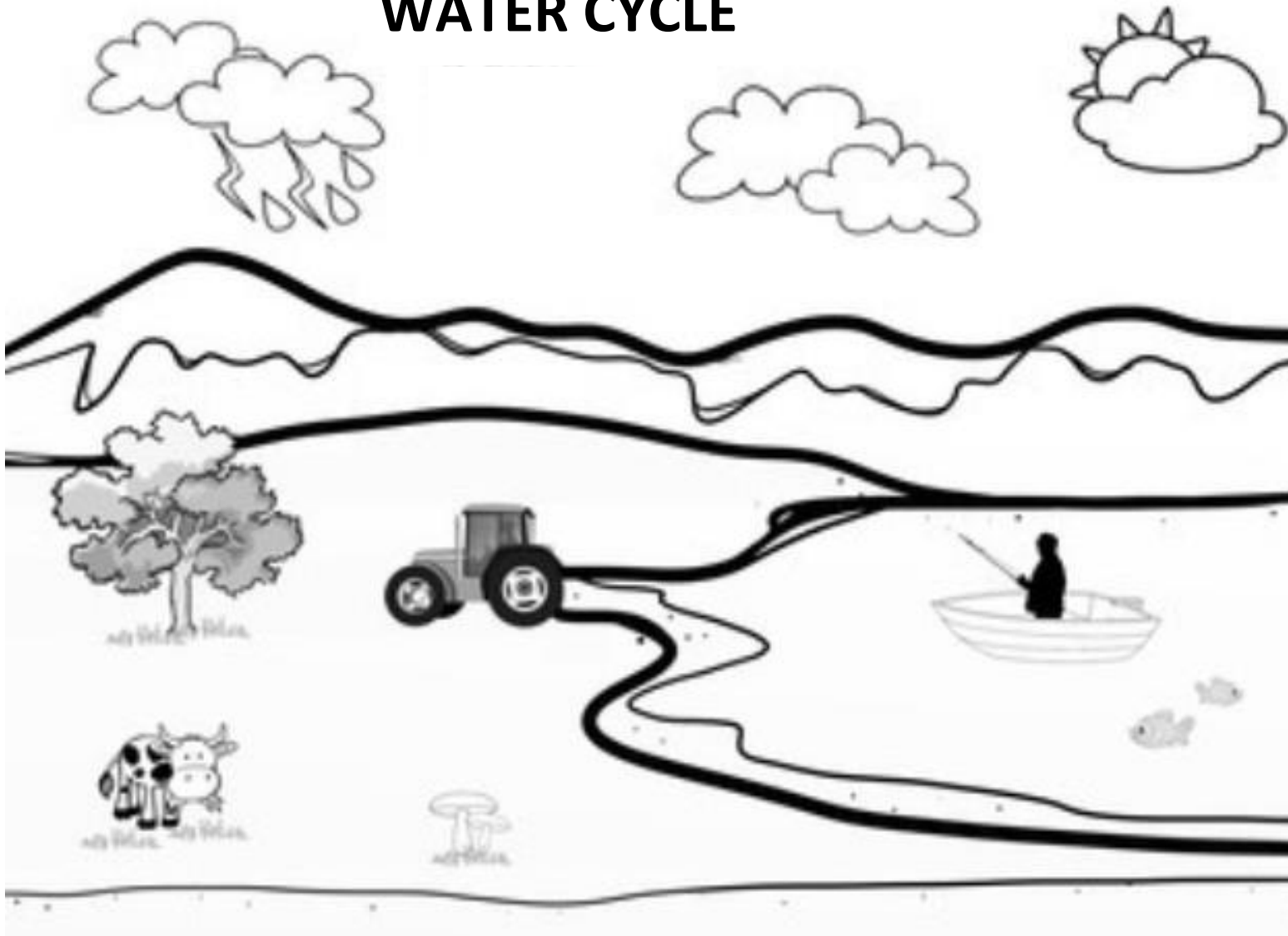
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**Instructions:**

In the following diagram, represent how matter flows for each of the four major matter cycles: water, carbon, nitrogen, and phosphorus. Draw and label arrows with key terms to indicate how matter flows between each sphere and how each sphere interacts with each other. Be sure to colour code each of the matter cycles, and use all of the terms from the word bank.

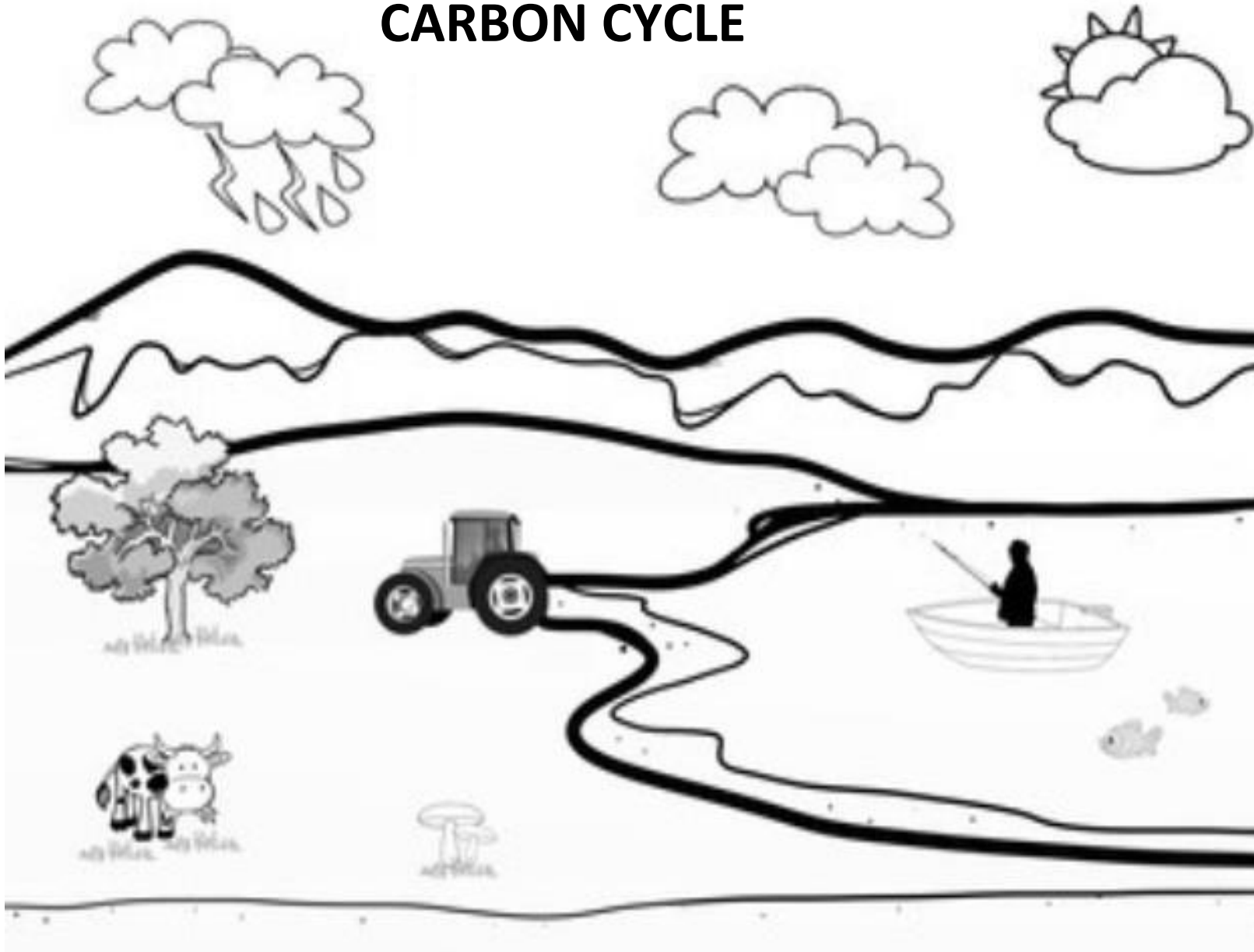
## WATER CYCLE



**Water Cycle**

- Condensation
- Infiltration
- Ground water
- Transpiration
- Evaporation
- Precipitation
- Run-off

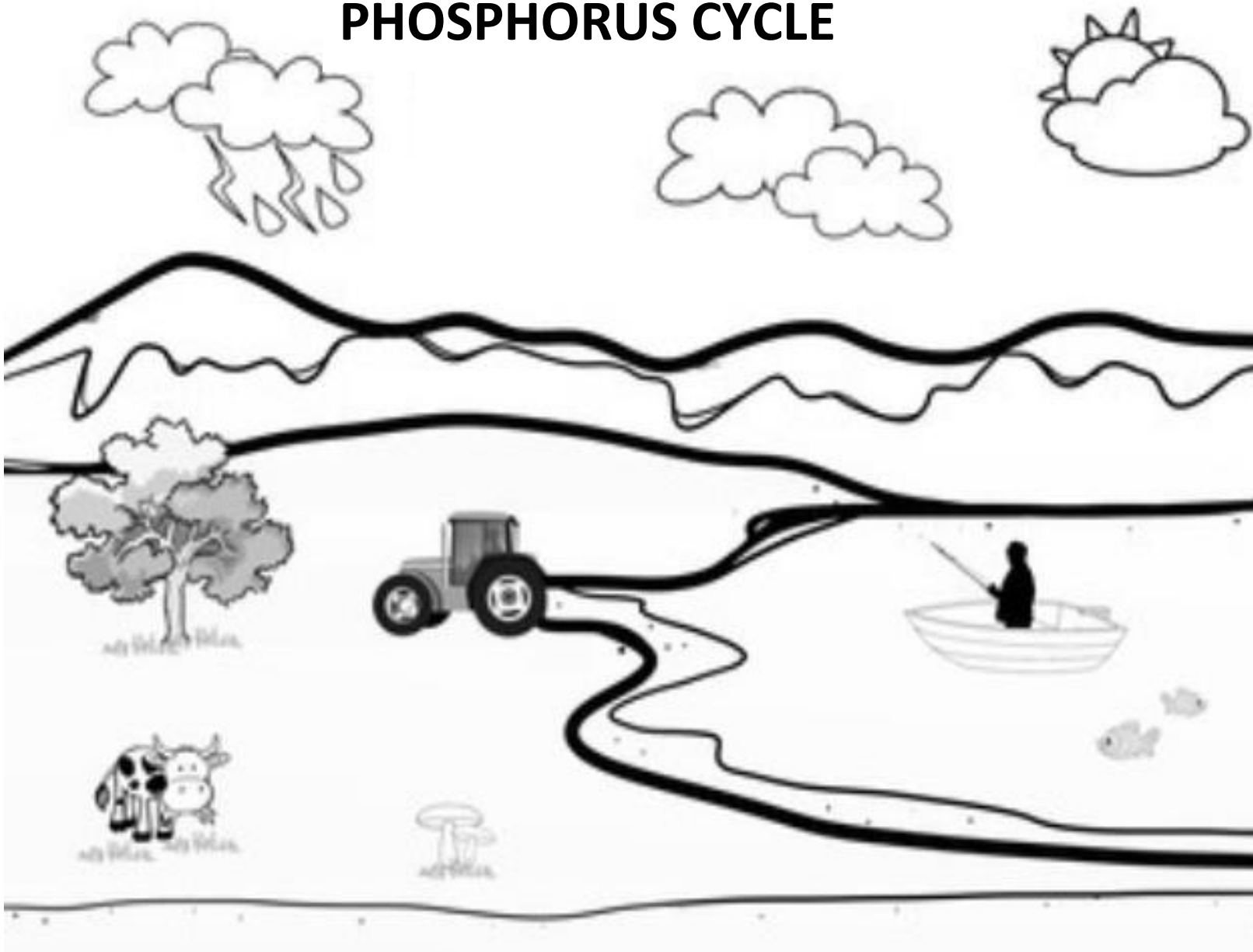
# CARBON CYCLE



## Carbon Cycle

- CO<sub>2</sub> gas exchange
- Deposition
- Respiration
- Photosynthesis
- Fossil fuels
- Human activity
- Burning fossil fuels
- Feeding
- Decomposer
- Decomposition

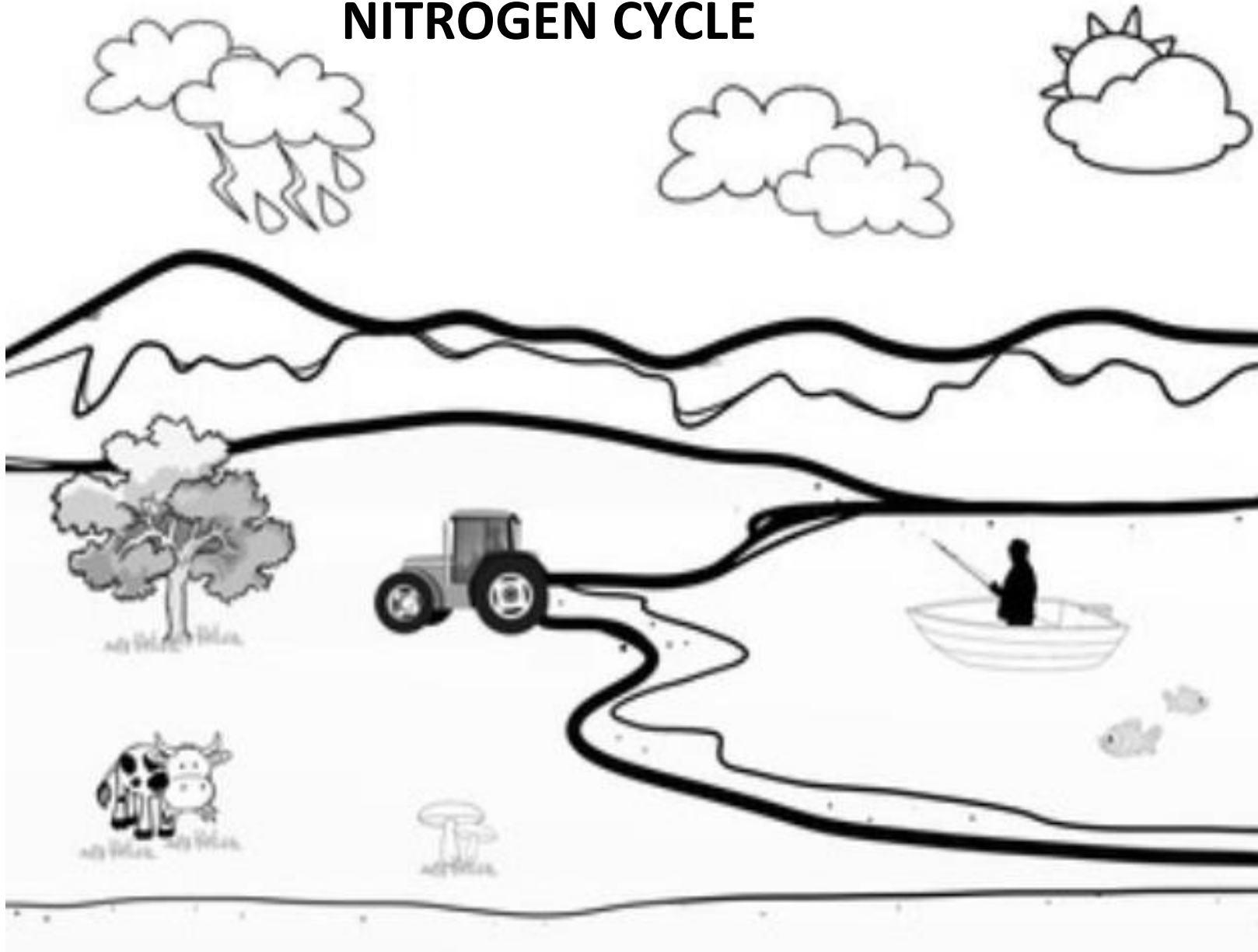
# PHOSPHORUS CYCLE



## Phosphorus Cycle

- Weathering
- Geological uplift
- Plant uptake from soil
- Fertilizer run-off
- Feeding
- Decomposer
- Decomposition

# NITROGEN CYCLE



## Nitrogen Cycle

- $\text{NO}_2$  emission
- Nitrogen fixation
- Denitrification
- Lightning fixation
- Plant uptake from soil
- Fertilizer run-off
- Feeding
- Decomposer