

Ecosystem

a fundamental
functional & structural
unit of biosphere

the smallest
complete
unit of
ecological
analysis

What is ecosystem?

a biotic
Community
in a habitat

+

Abiotic
factors

+

interactions
between
biota
and
abiota

NEW

Imp. NCERT
chapters

Right now,

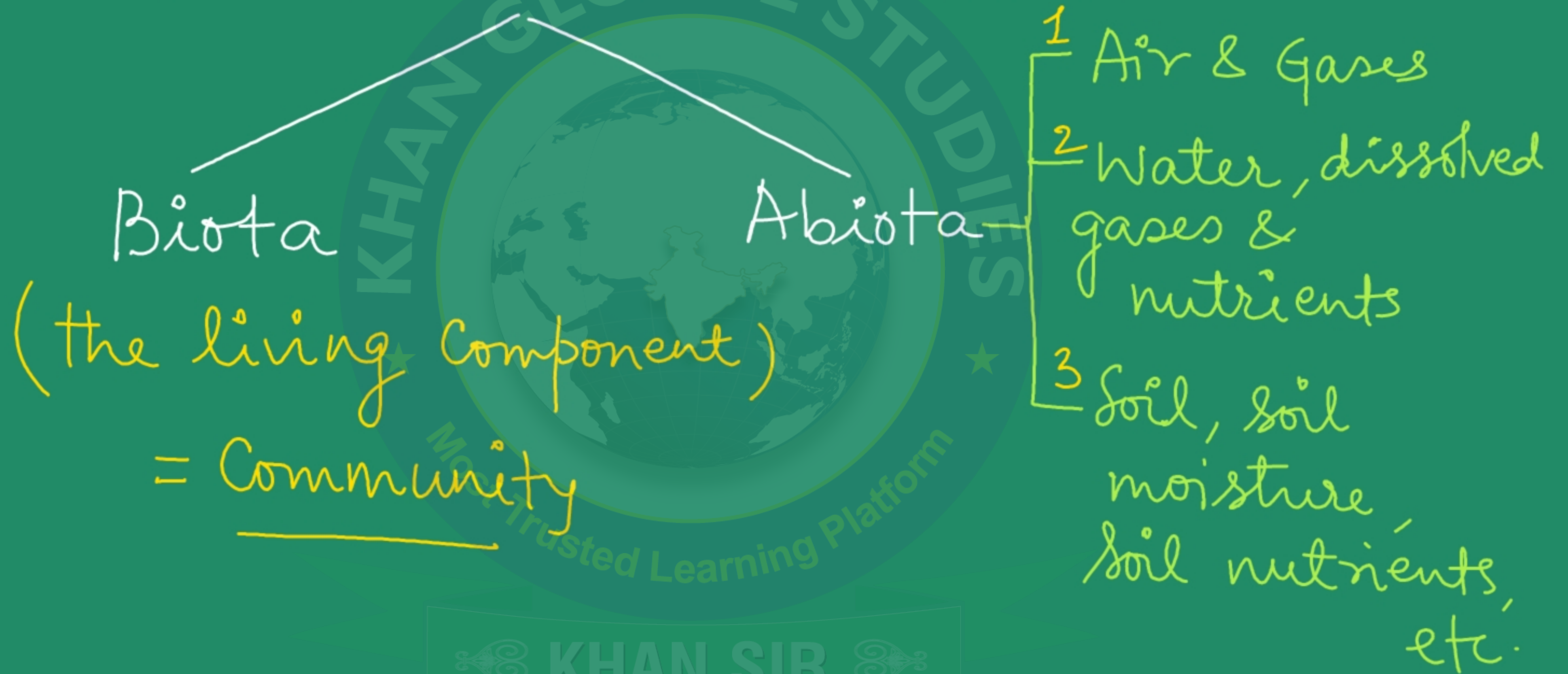
Ch. 13, 14

NCERT Bio.
Class XII

Later

Ch. 15, 16

Components of Ecosystem



7) Altitude

Abiota (contd.)

8) Topography

4) General temperature

5) General moisture
and precipitation

6) Sunlight — as a resource
↳ as a condition

SIDE NOTES

5 big cats of India

+ 1 ↴

Recently reintroduced in 2022
+ Cheetah

Acinonyx jubatus

Tigers
1973 → National Animal

Panthera tigris

Lions
Before 1973,
National Animal

Panthera leo-persica

Leopards
Panthera pardus

Snow Leopard

Panthera uncia

(= Uncia uncia)

Clouded Leopards

★ Neofelis nebulosa

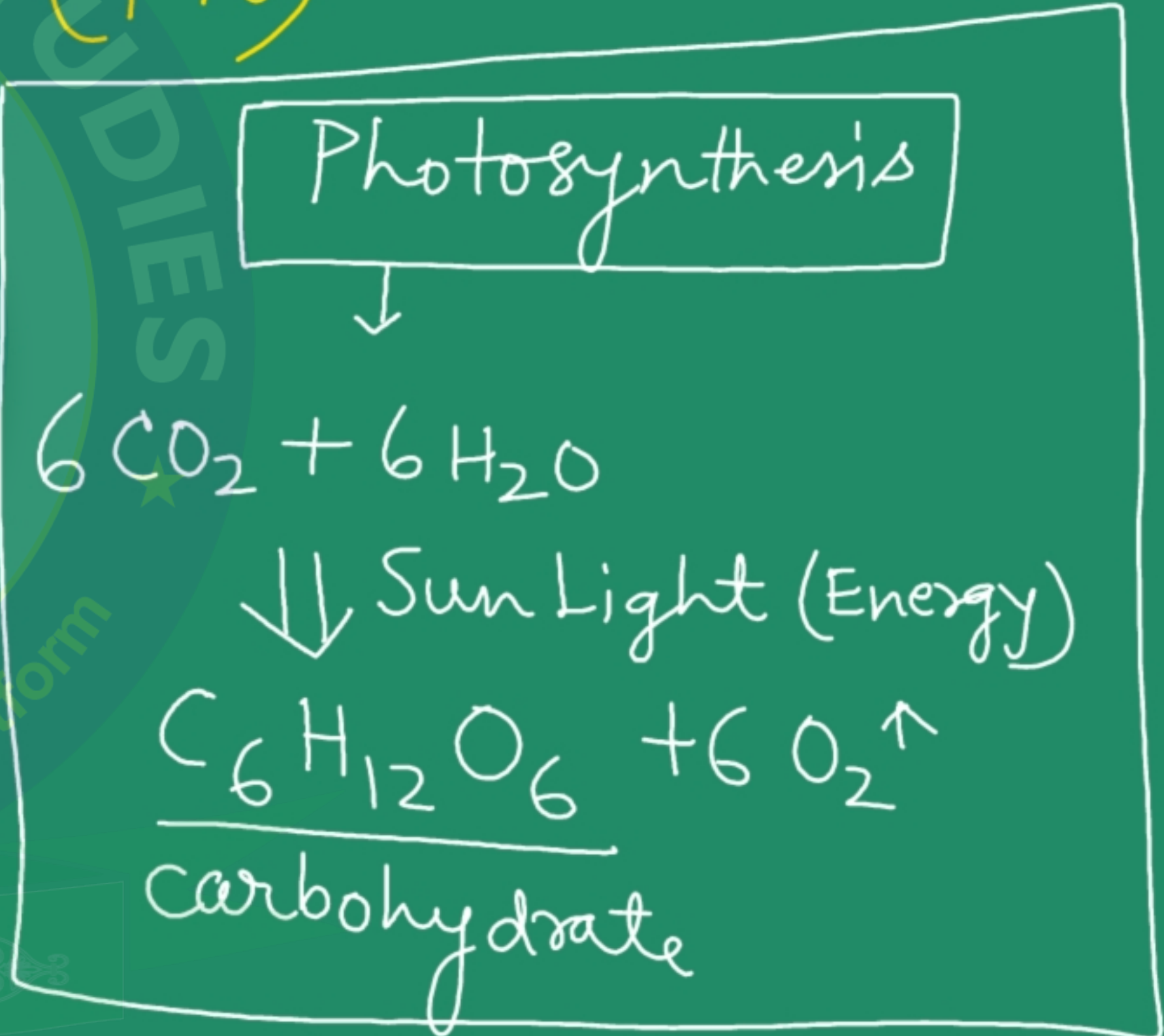
Primary Producers
 ✓ Can convert
 abiotic energy abiotic raw material
 into food & biomass

⇒ responsible for all the biomass in the ecosystem

Consumers (PTO)

examples
 ✓ All algae (except: Cephalopods)
 ✓ Most of the plants (All plants except Parasitic and Saprophytic plants)
 ✓ Photosynthetic bacteria

Detritivores (PTO)



→ living matter

Consumers

✓ need biomass as source of energy and building blocks

✓ Why? Can not use abiotic raw material & energy for its own biomass formation

Types

② Parasites to be contd.

①

Predator

for animal prey → Carnivores
→ Kill the prey

for plant prey → Grazers & Foragers

→ do not kill the prey
but prey may die due to predation

- ✓ depends on other organism → Prey
- ✓ Comes in contact with prey for short time
- ✓ but takes away large part of biomass

Resource

- Can be Consumed
or
utilised

e.g.

Light for photosynthesis

Condition

Can not be
Consumed

e.g.

✓ Light as a factor
for animal behaviour

