

Note: This is a Word file that has some slides spliced in. As a result there are some annoying gaps in the file. I have found navigating the file to be easiest by using the touchpad and curser to manipulate the scroll bar along the right hand margin.

LIFE SCIENCE

CHAPTER 13

THE ECOSYSTEM

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SURVEY OF TOPICS TO BE COVERED IN CHAPTER 13

ECOLOGY - THE STUDY OF ORGANISMS
IN THEIR HABITATS

ECOSYSTEM – A LIMITED AREA IN
WHICH LIVING AND NONLIVING THINGS
INTERACT

**PHYSICAL ENVIRONMENT OF
ECOSYSTEMS** - ALL OF THE NONLIVING
FACTORS IN AN ECOSYSTEM –
INCLUDING BUT NOT LIMITED TO
LIGHT, TEMPERATURE, WATER, SOIL &
SUBSTRATE, WIND OR CURRENT

SUCCESSION IN ECOSYSTEMS -
ECOSYSTEMS TEND TO DEVELOP OVER
TIME FROM A FROM A SIMPLE
COLLECTION OF LIVING & NONLIVING

**FACTORS TO A GENERALLY FAR MORE
COMPLEX COLLECTION OF FACTORS**

**WATER CYCLE – WATER IS A KEY
FACTOR AFFECTING ESSECIALLY LIVING
TNINGS AND HAS A KEY EFFECT ON THE
CHARACTER OF ANY ECOSYSTEM**

**BIOTIC COMMUNITY - IS MADE UP OF
ALL THE LIVING THINGS IN AN
ECOSYSTEM**

**THE CARBON -OXYGEN CYCLE - TO A
LARGE EXTENT THIS IS THE RESULT OF
THE INTERPLAY BETWEEN**

PHOTOSYNTHESIS AND CELLULAR RESPIRATION

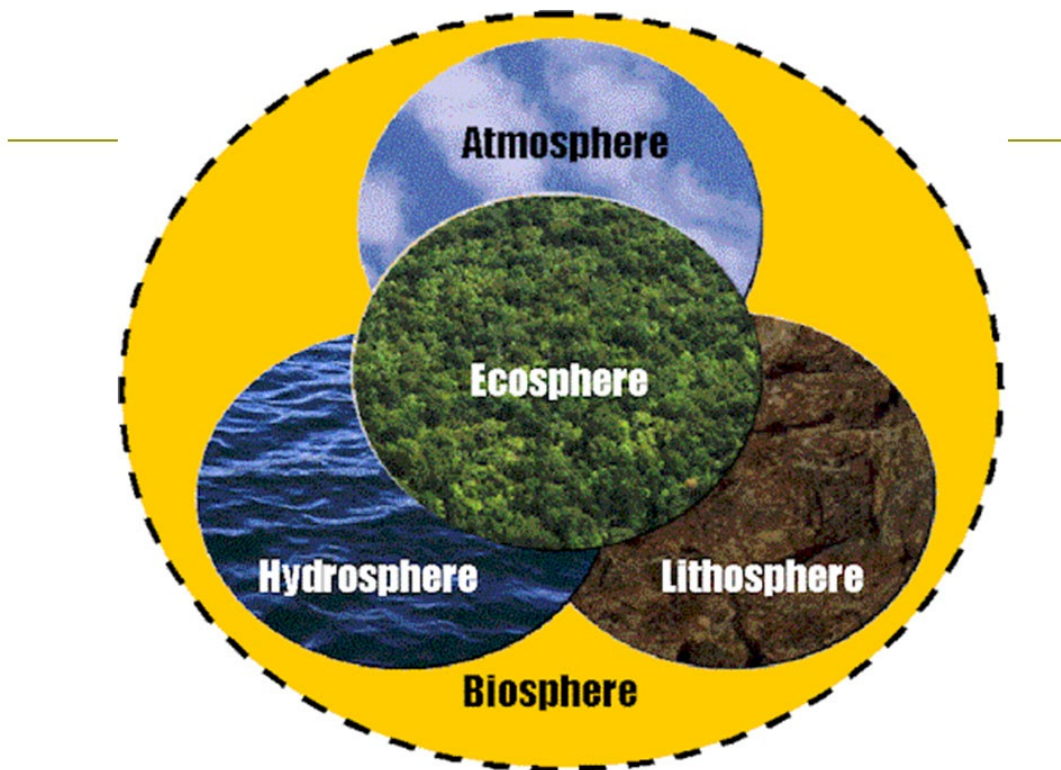
LIMITING FACTORS - BIOTIC AND ABIOTIC INFLUENCES THAT AFFECT THE CHARACTER OF AN ECOSYSTEM - CLASSIC EXAMPLE - THE INTERDEPENDANT CYCLIC NATURE OF THE POPULATIONS OF THE LYNX AND THE RABBIT

RHYTHMS IN AN ECOSYSTEM – DAY/NIGHT RHYTHMS, SEASONAL RHYTHMS, BIOLOGICAL CLOCKS

THE SCIENTISTS WHO CLASSIFY EARTH'S ENVIRONMENT INTO WORKABLE UNITS

**THE ECOSYSTEMS ARE CALLED
ECOLOGISTS**

**THE EARTH'S VARIOUS SPHERES -
THE BIOSPHERE IS OF COURSE THE
REALM OF LIFE SCIENCE**



□ **BIOSPHERE** The part of Earth that supports life

■ Top portion of Earth's crust

■ All the waters that cover Earth's surface

■ Atmosphere that surrounds Earth.