

ORGANISMS' LIFE PROCESSES AND BASIC NEEDS

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EDUCATION PARTNERSHIP**

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Foundation**

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Organisms' Life Processes and Basic Needs

Table of Contents

1	Organisms	21	Life Processes: Respiration in Plants and Animals	38	Plant Movement
2	Organism Kingdoms	22	Basic Needs: All Organisms	39	Tropisms
3	Life Processes and Basic Needs Across Kingdoms	23	Basic Need: Energy	40	Extrinsic and Intrinsic Motion
4	Organisms	24	Basic Need: Oxygen in Air	41	Taxonomy
5	Life Processes	25	Basic Need: Oxygen Dissolved in Water	42	Taxonomists
6	Life Processes: Growth	26	Basic Need: Water	43	Taxonomical Groups
7	Life Processes: Development	27	Basic Needs: Nutrients	44	Taxonomical Kingdoms
8	Life Processes: Reproduction	28	Basic Needs: Nutrients – Fertilizers	45	Animal Kingdom: Vertebrates and Invertebrates
9	Life Processes: Sexual Reproduction	29	Basic Needs: Nutrients – Animal Food	46	Vertebrates: Examples
10	Life Processes: Asexual Reproduction	30	Basic Needs: Plants	47	Invertebrates: Examples
11	Life Processes: Nutrition	31	Basic Needs: Animals	48	Kingdom Protista
12	Life Processes: Synthesis	32	Life Processes and Basic Needs: A Comparison of Plants and Animals	49	Kingdom Plantae
13	Life Processes: Synthesis of Complex Chemicals	33	Respiration and Photosynthesis: Comparison 1	50	Kingdoms Eubacteria and Archebacteria
14	Life Processes: Synthesis of Complex Structures	34	Respiration and Photosynthesis: Comparison 2	51	Kingdom Fungi
15	Basic Needs: Oxygen for Respiration	35	Respiration and Photosynthesis: Comparison 3	52	Classification Example: Animals
16	Life Processes: Excretion	36	Respiration and Photosynthesis: Comparison 4	53	Scientific Models
17	Life Processes: Excretion in Plants and Animals	37	Animal Movement	54	Natural Systems
18	Life Processes: Regulation			55	Ecosystems, Terrariums and Aquariums
19	Life Processes: Transport			56	Ecosystems, Terrariums and Aquariums
20	Life Processes: Respiration				

ORGANISMS

**Over 1,100,000
ORGANISMS**

live in

Earth's biosphere

are

ORGANISMS

are classified into

**six large
groups**

reproduce

called

kingdoms

are a class of cold-blooded

are a class of cold-blooded

are

are

are

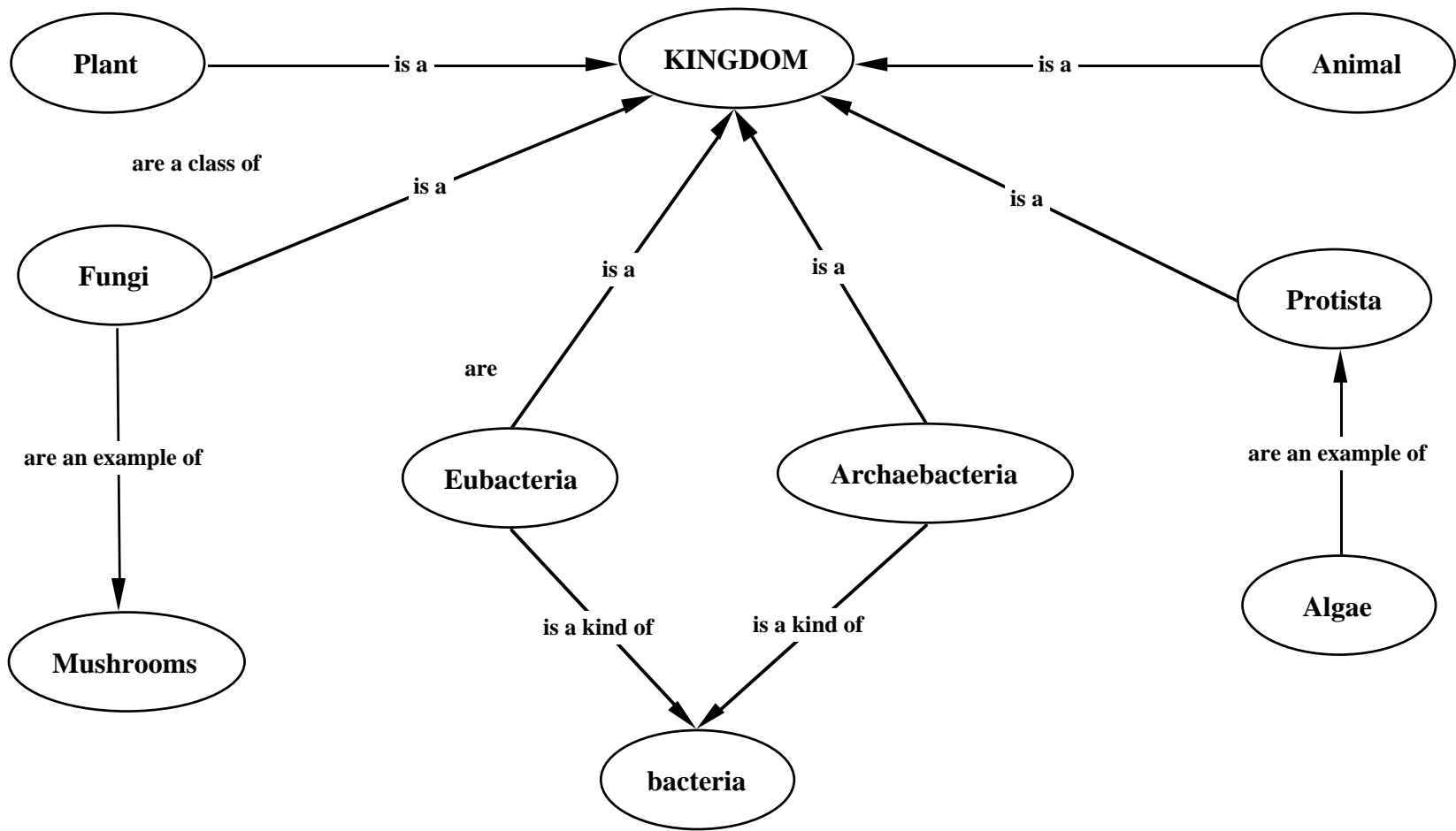
are

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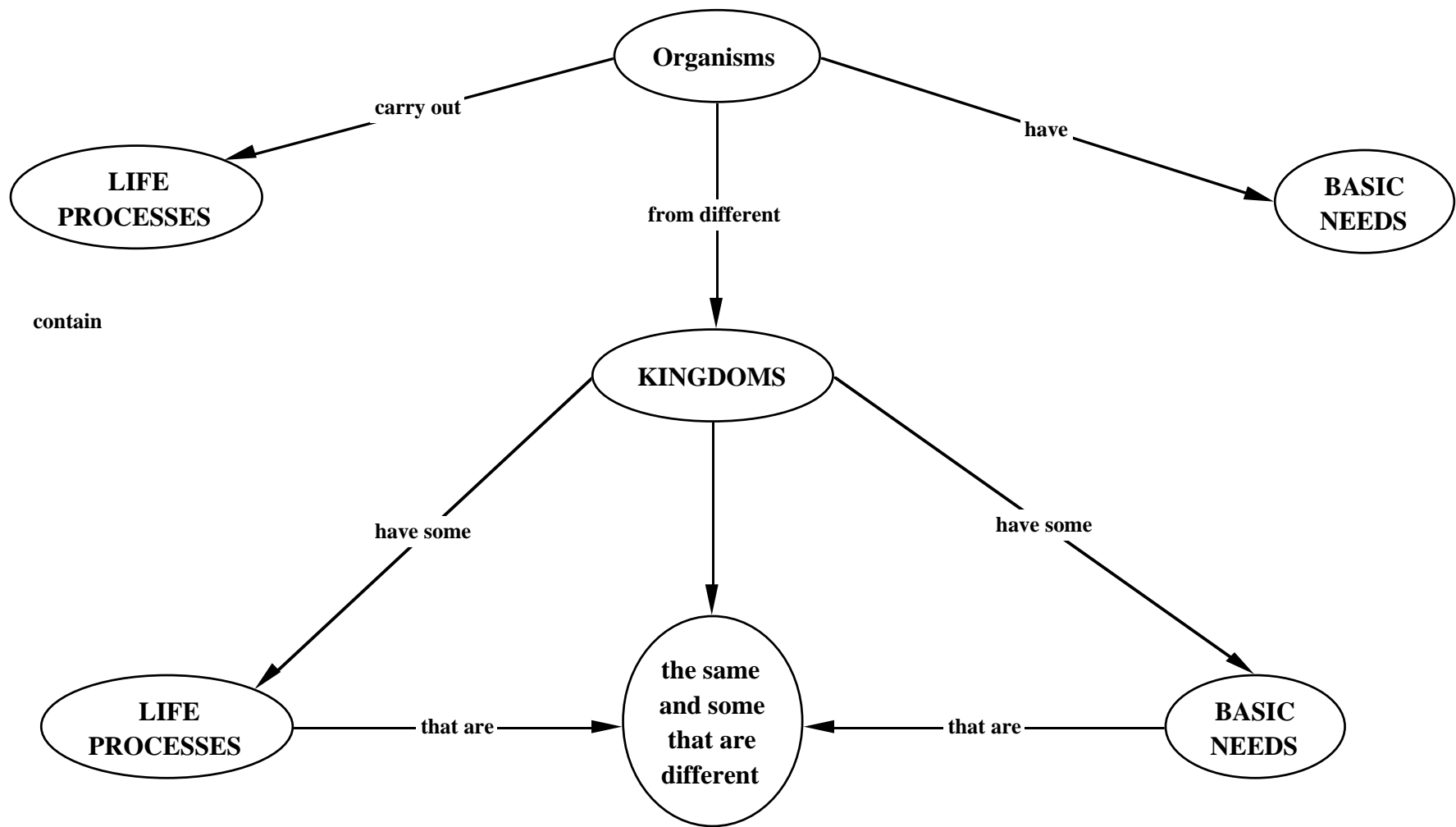
occur in

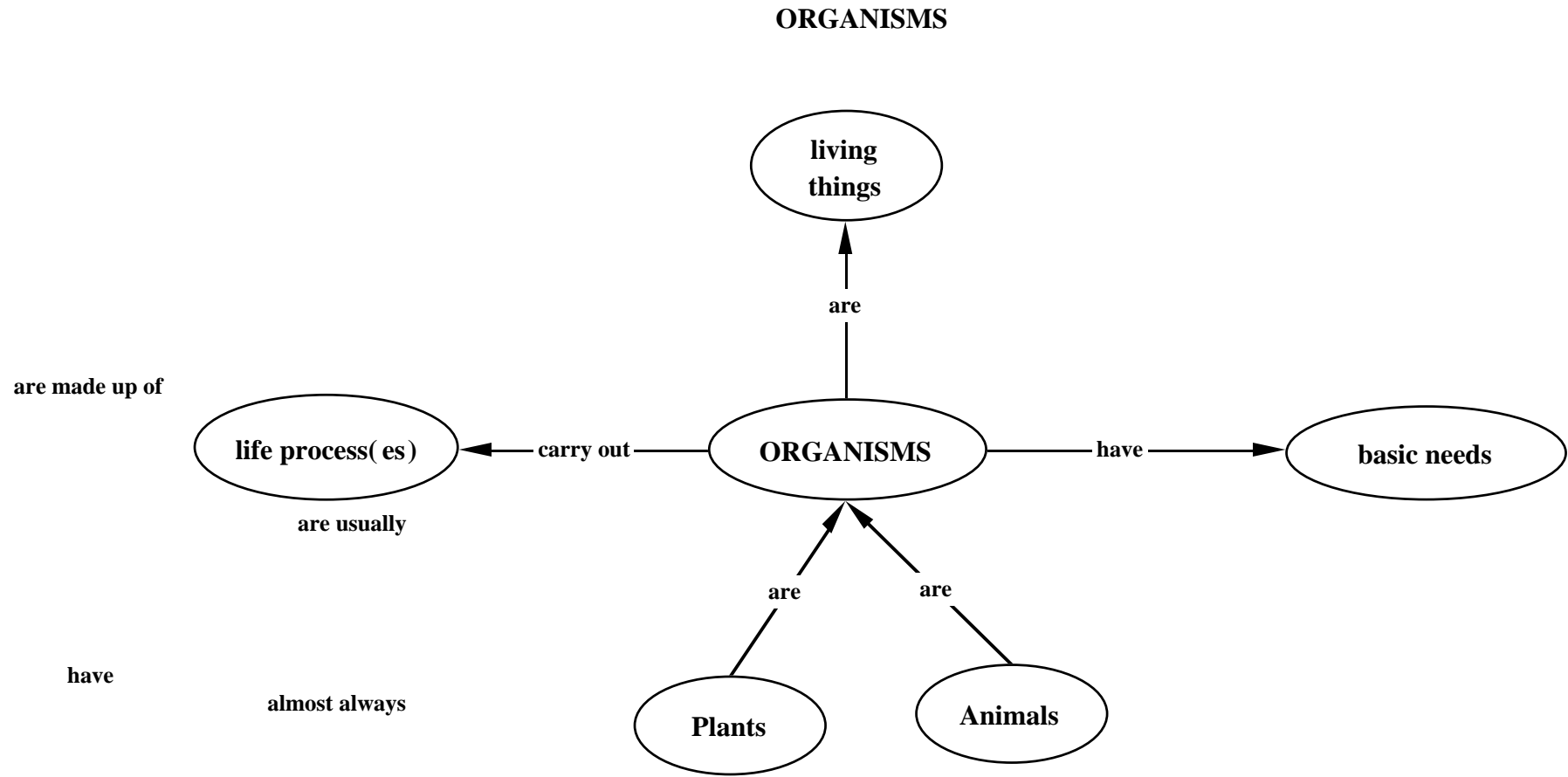
reproduce

ORGANISM KINGDOMS

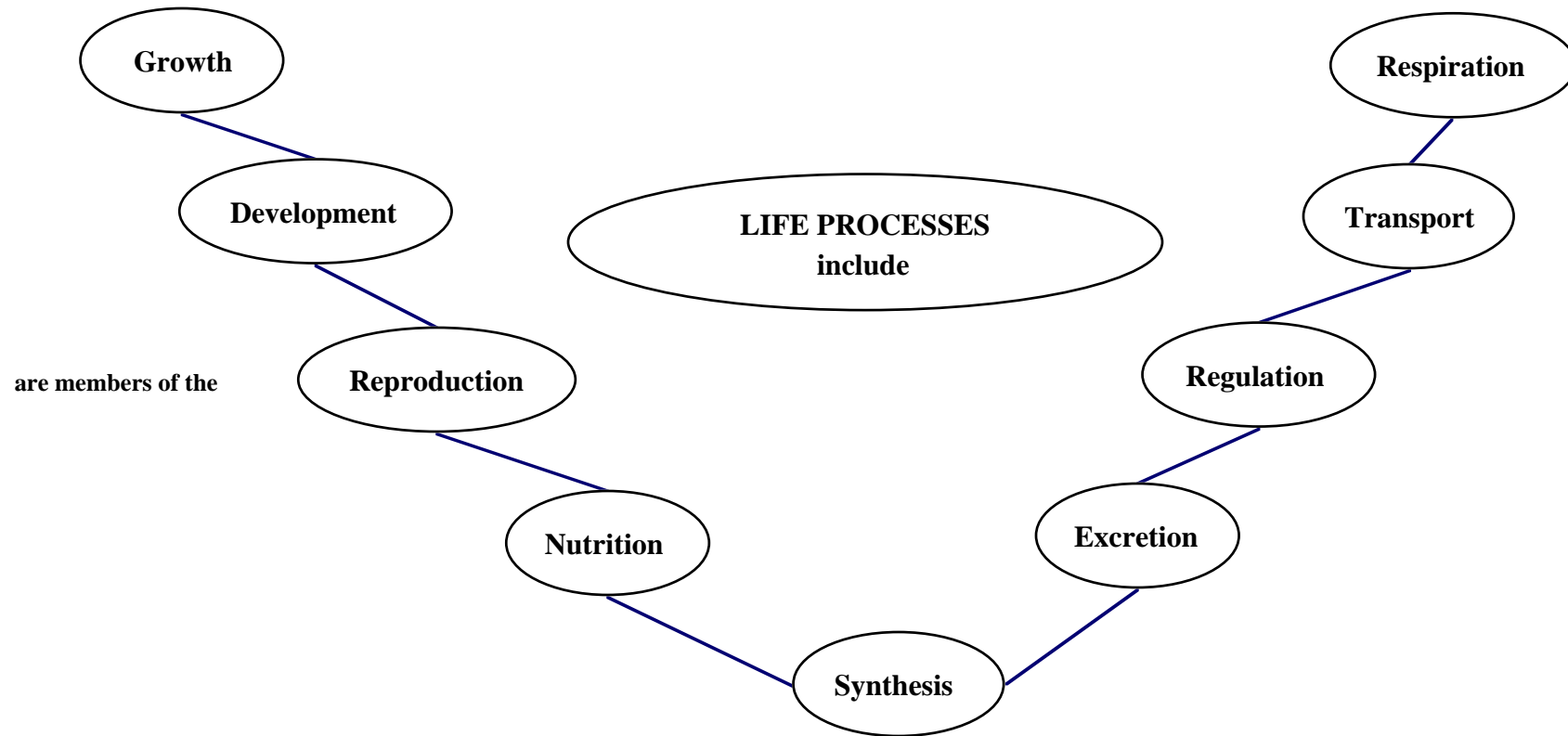


LIFE PROCESSES AND BASIC NEEDS ACROSS KINGDOMS





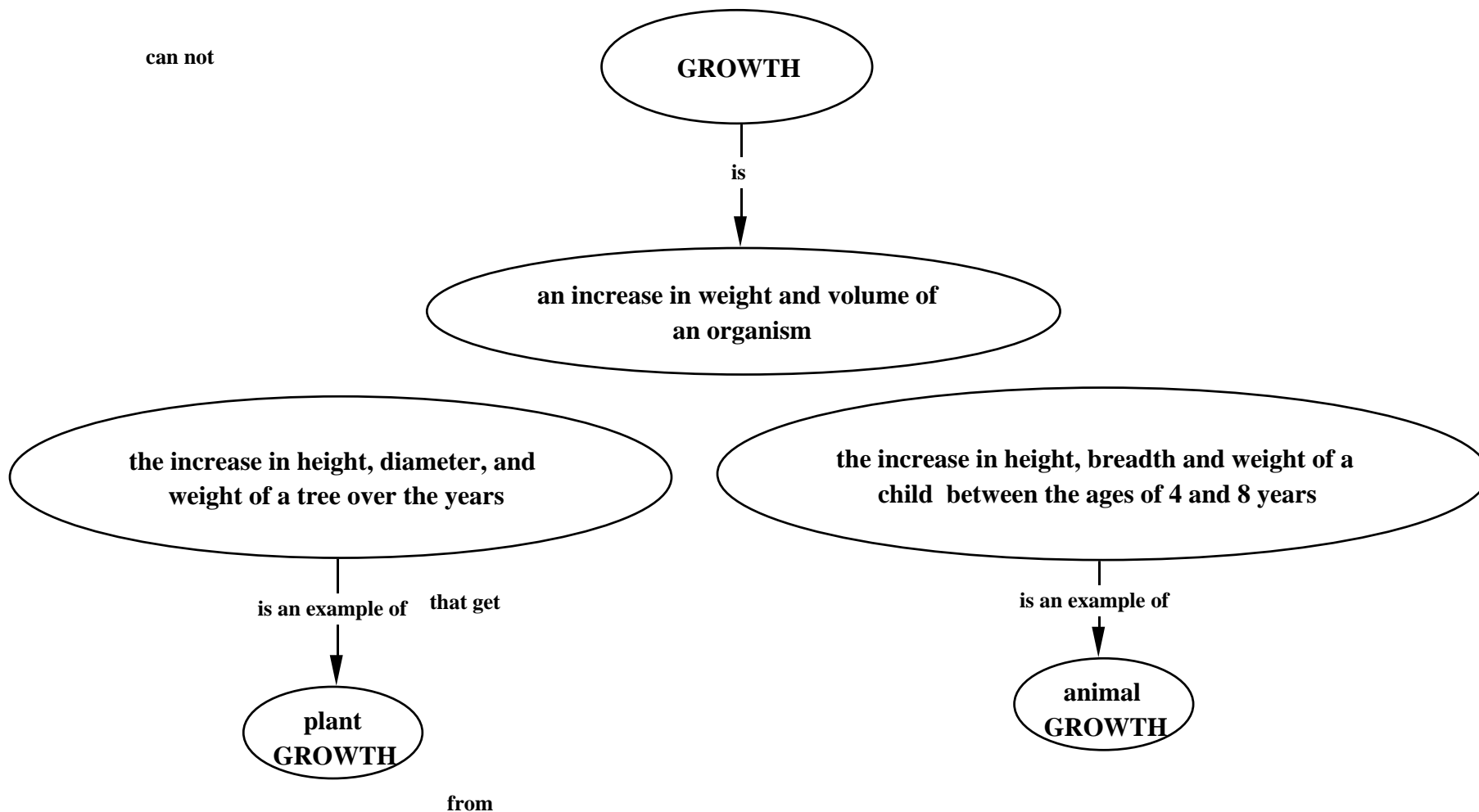
LIFE PROCESSES



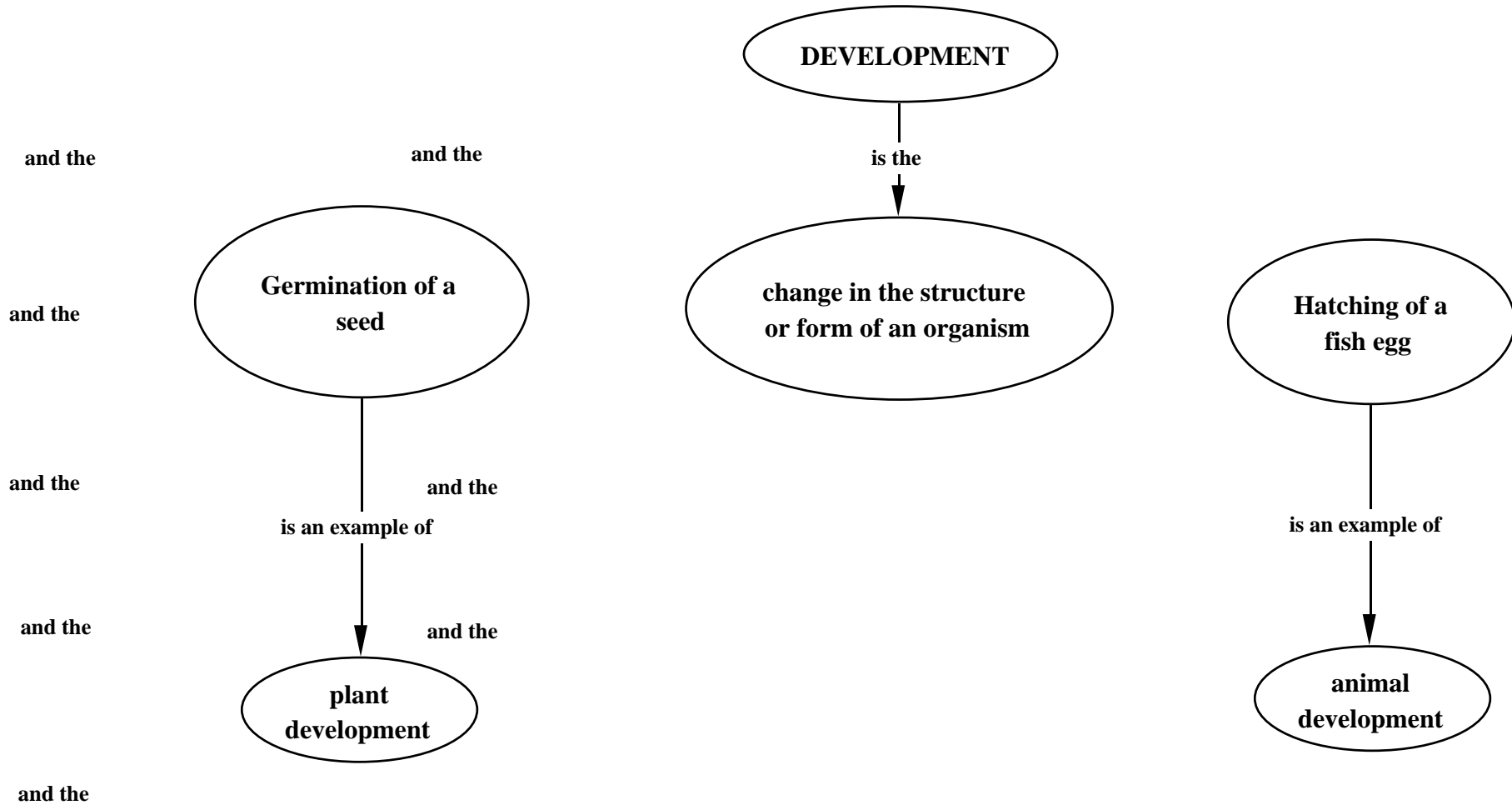
LIFE PROCESS: GROWTH

can not

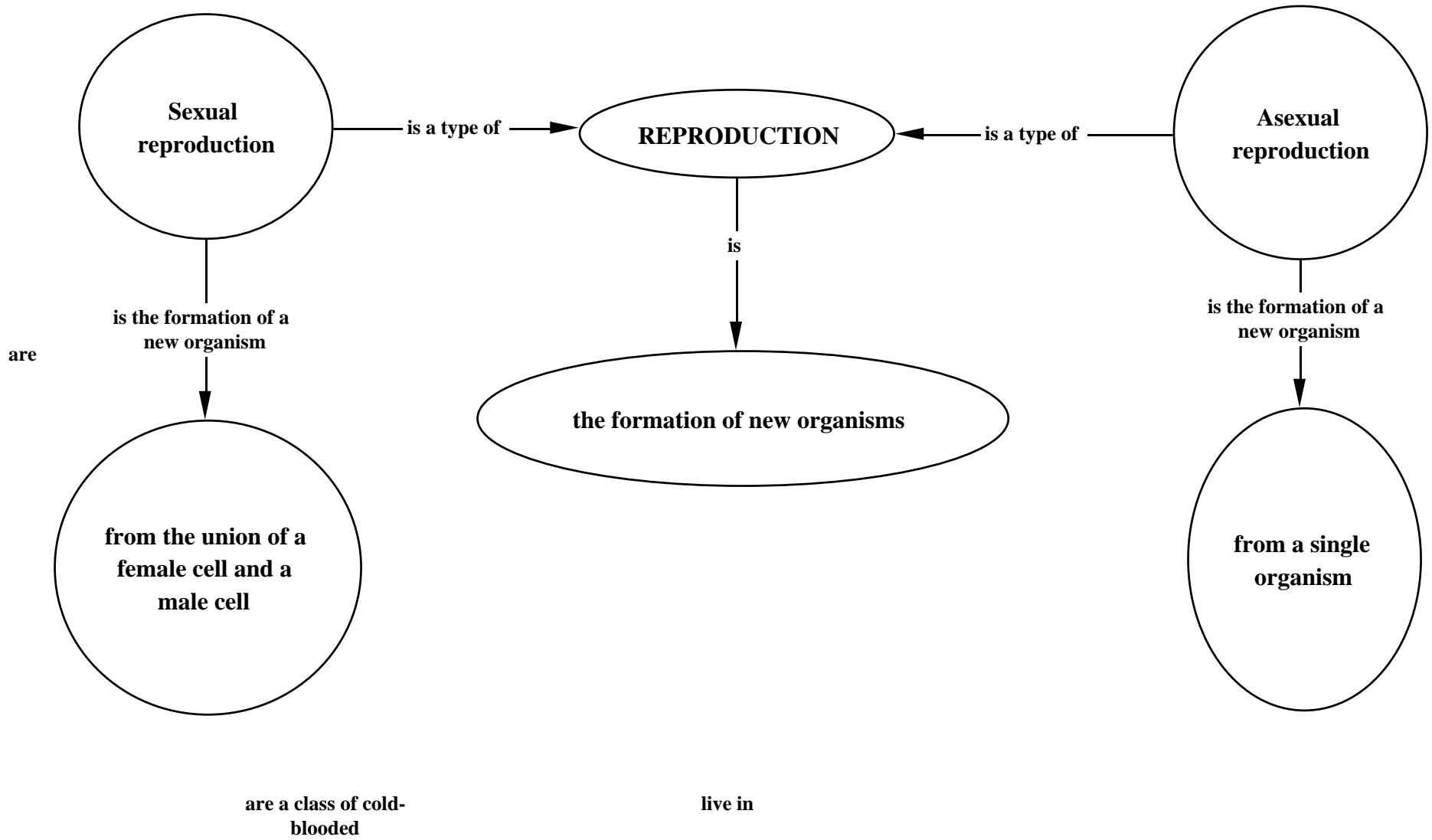
secrete



LIFE PROCESSES: DEVELOPMENT



LIFE PROCESSES: REPRODUCTION



are

are a class of cold-blooded

are a class of cold-blooded

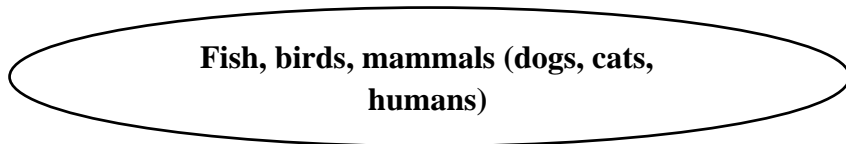
LIFE PROCESSES: SEXUAL REPRODUCTION

are

are classified into

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are



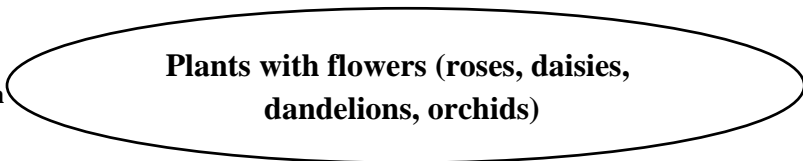
reproduce



called

have

occur in



reproduce



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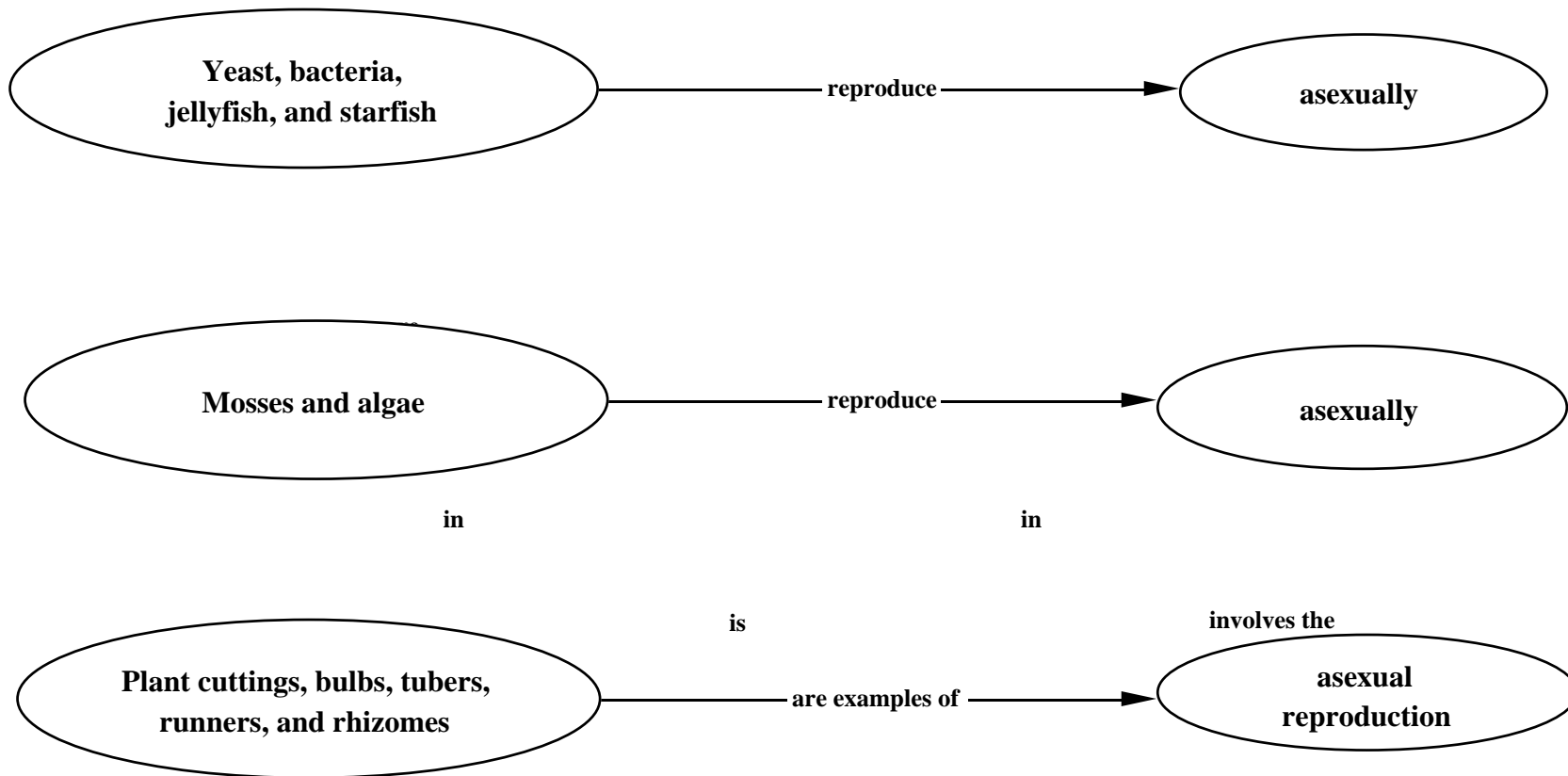
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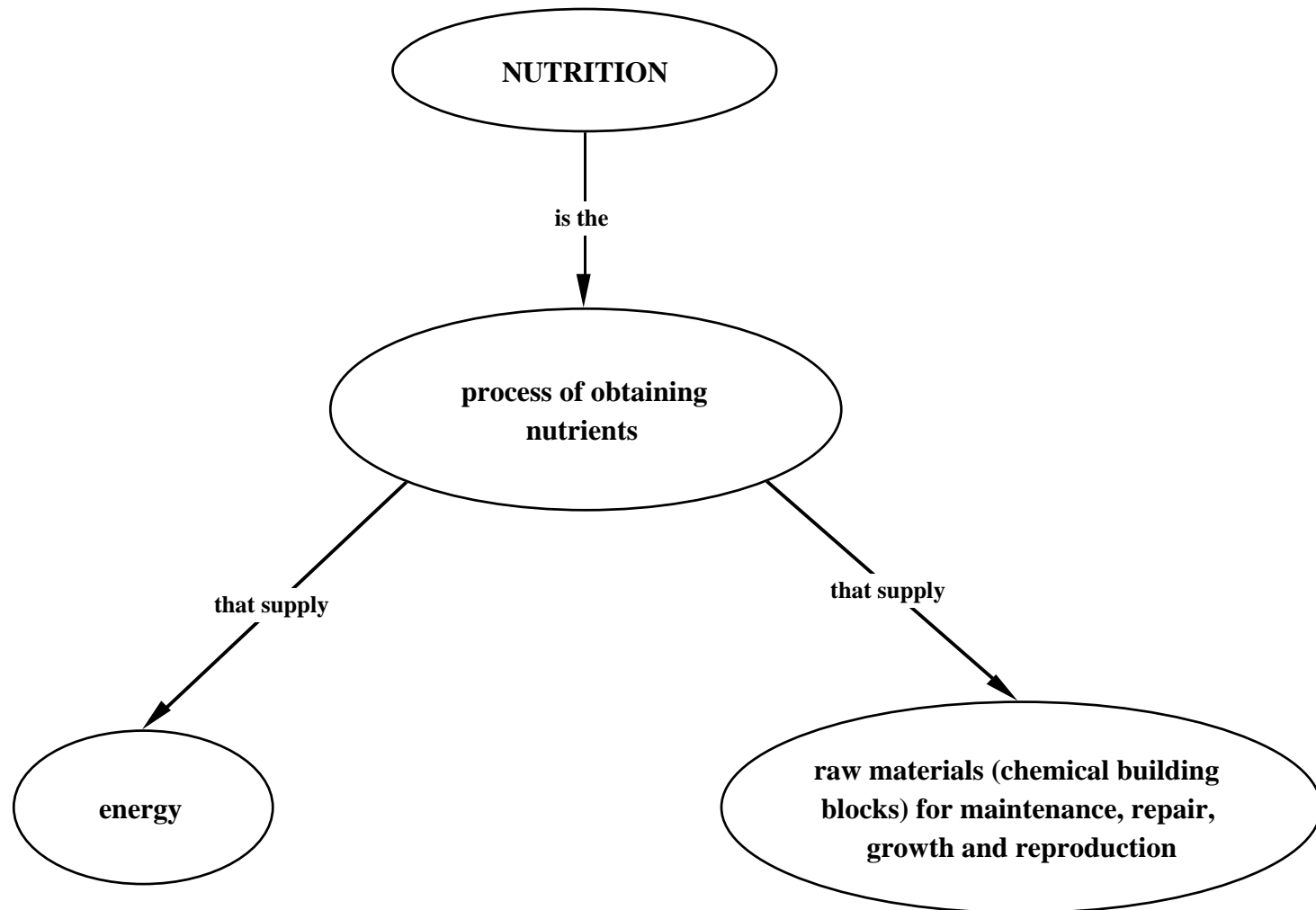
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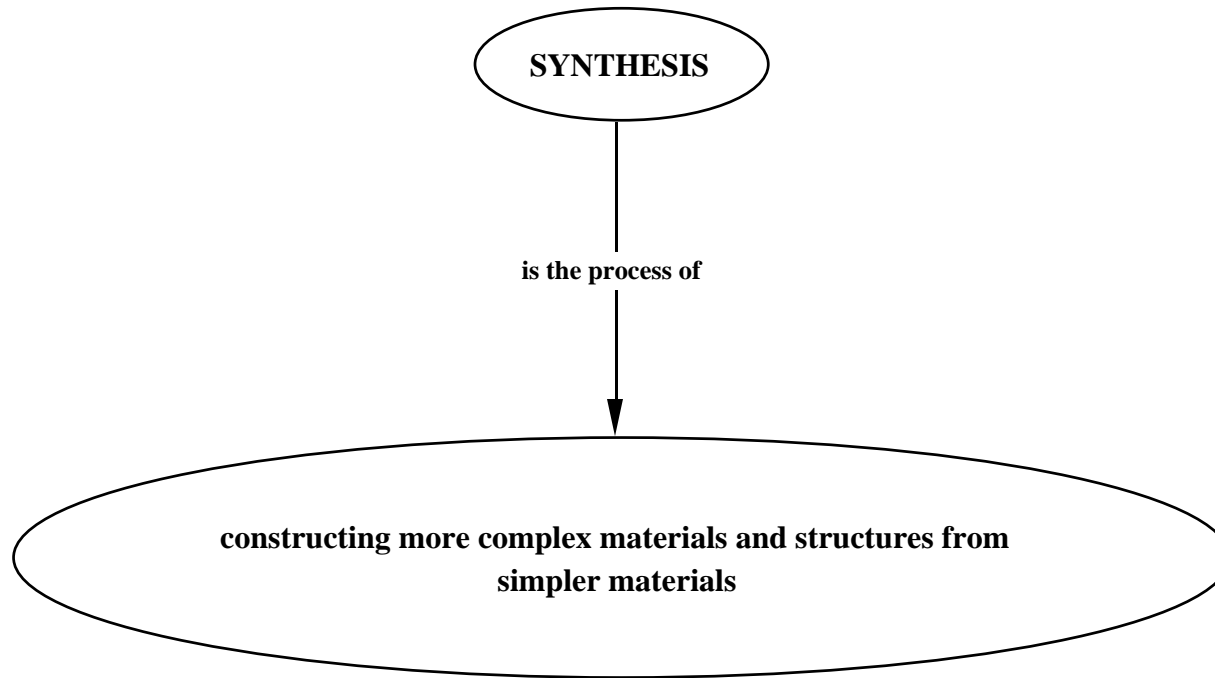
**LIFE PROCESSES:
ASEXUAL REPRODUCTION**



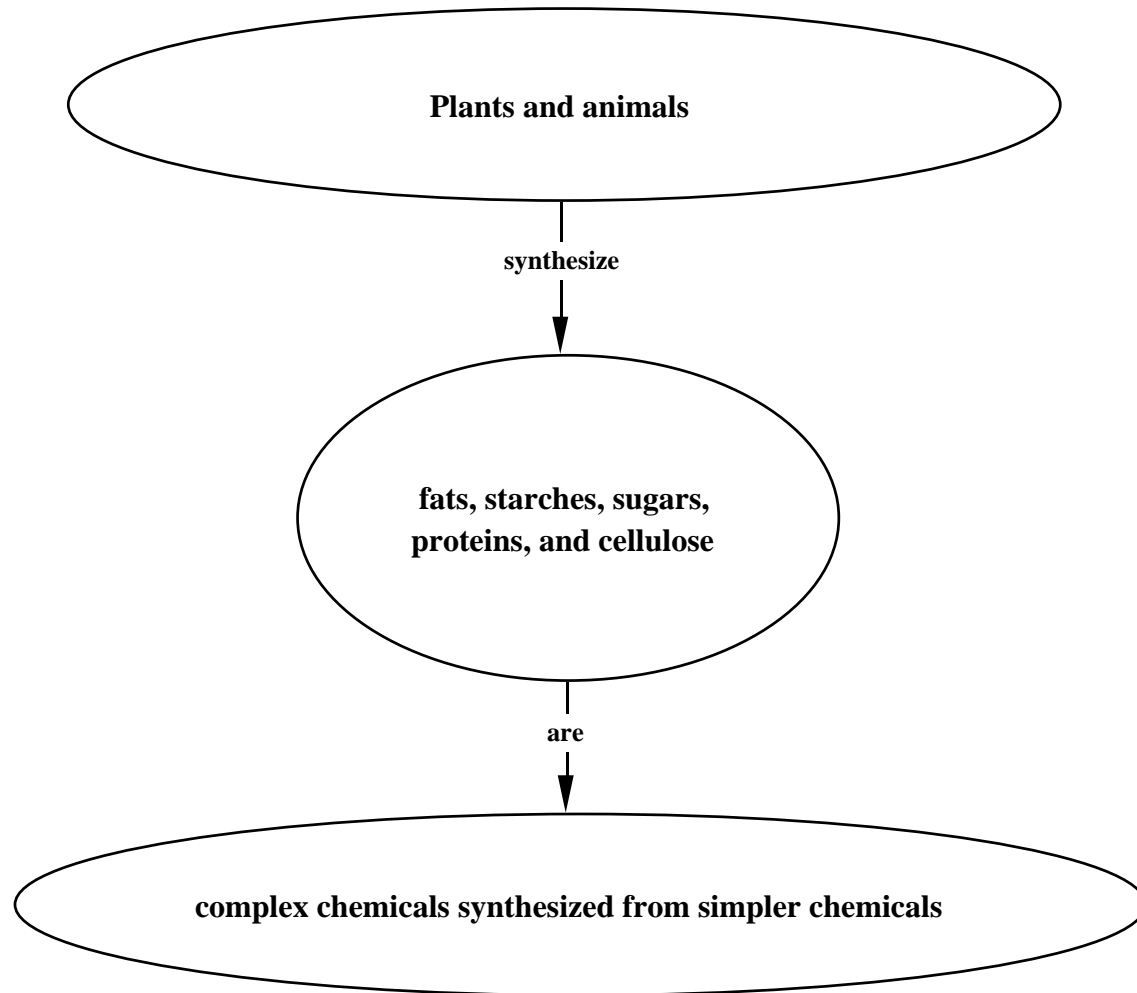
**LIFE PROCESSES:
NUTRITION**



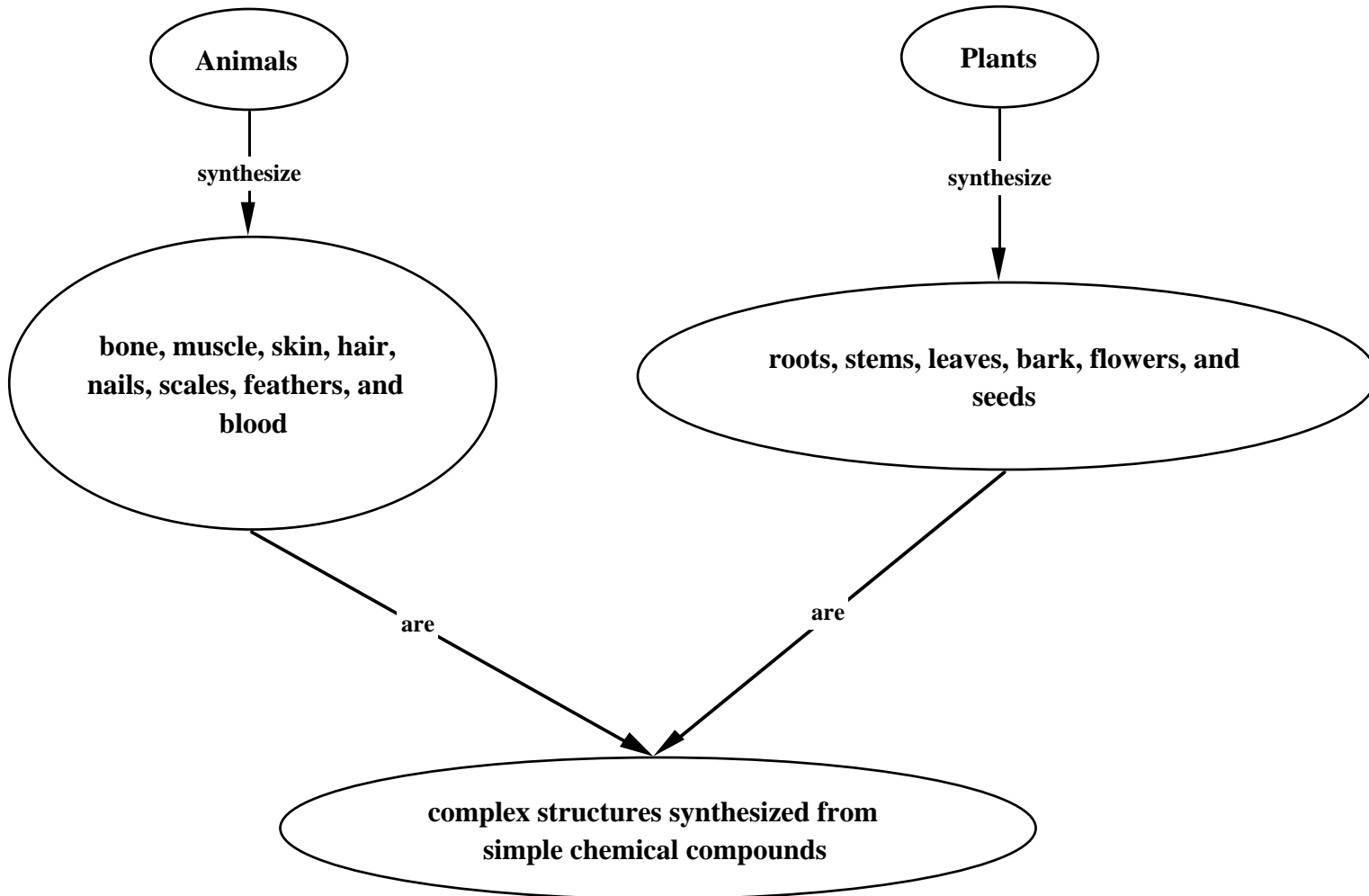
**LIFE PROCESSES:
SYNTHESIS**



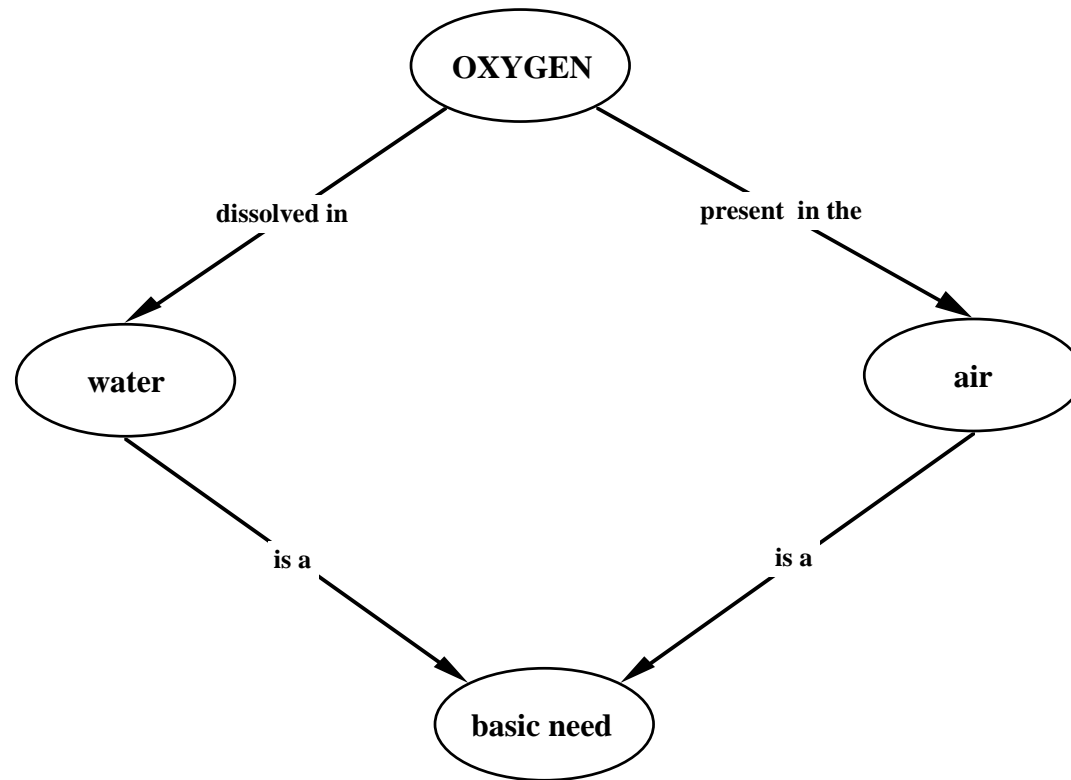
**LIFE PROCESSES:
SYNTHESIS OF COMPLEX CHEMICALS**



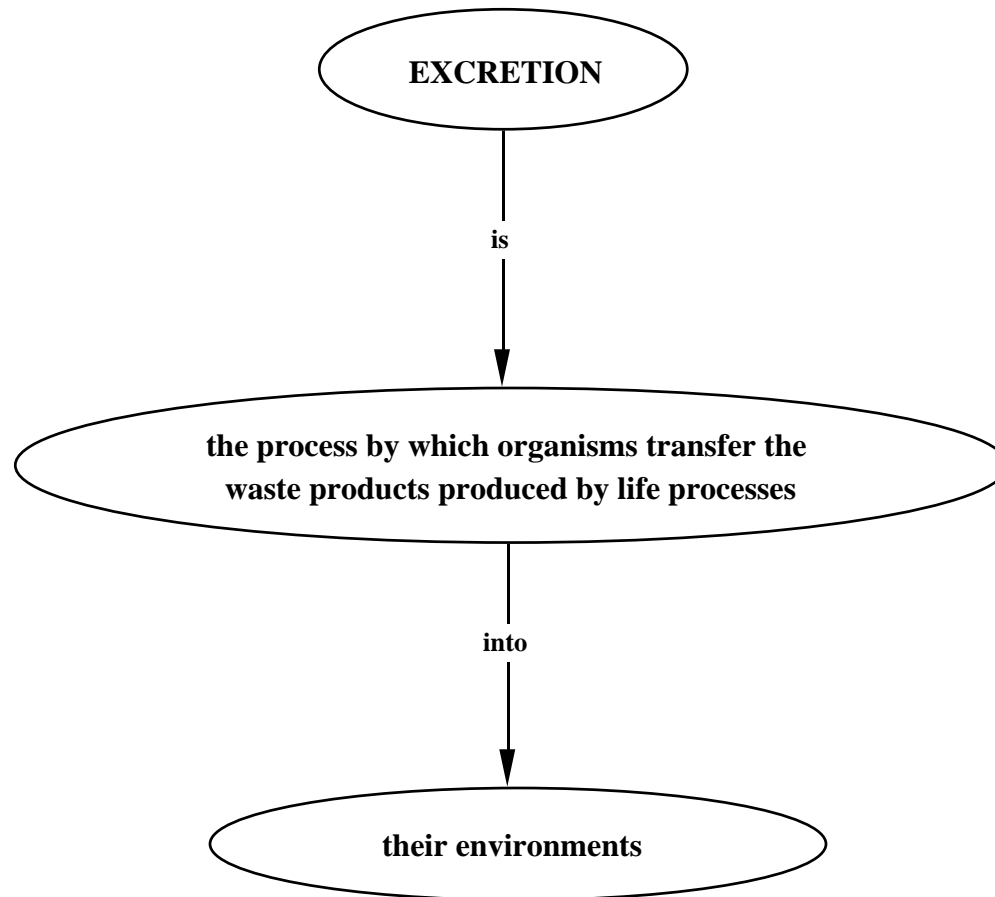
LIFE PROCESSES: SYNTHESIS OF COMPLEX STRUCTURES



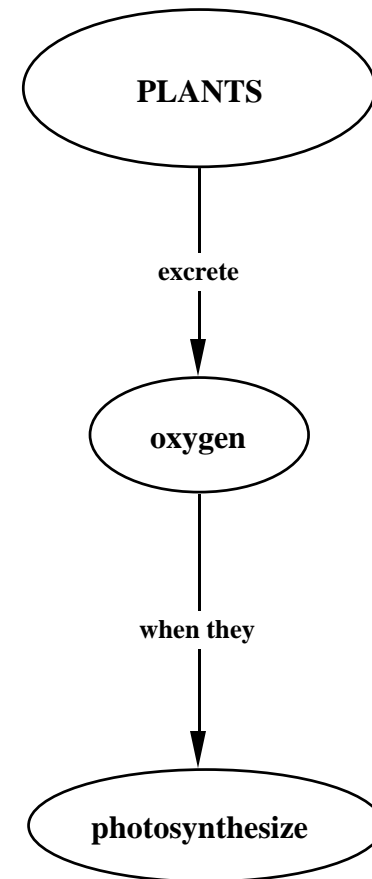
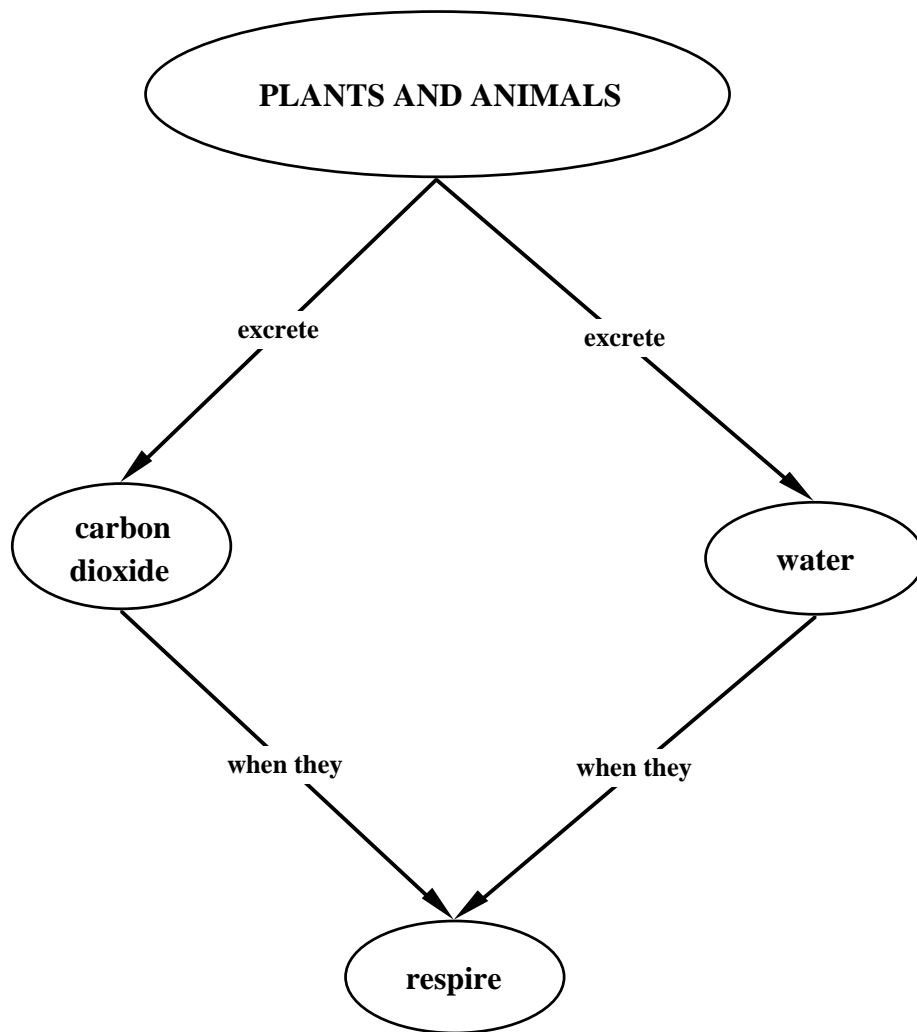
**BASIC NEEDS:
OXYGEN FOR RESPIRATION**



**LIFE PROCESSES:
EXCRETION**



LIFE PROCESSES: EXCRETION IN PLANTS AND ANIMALS

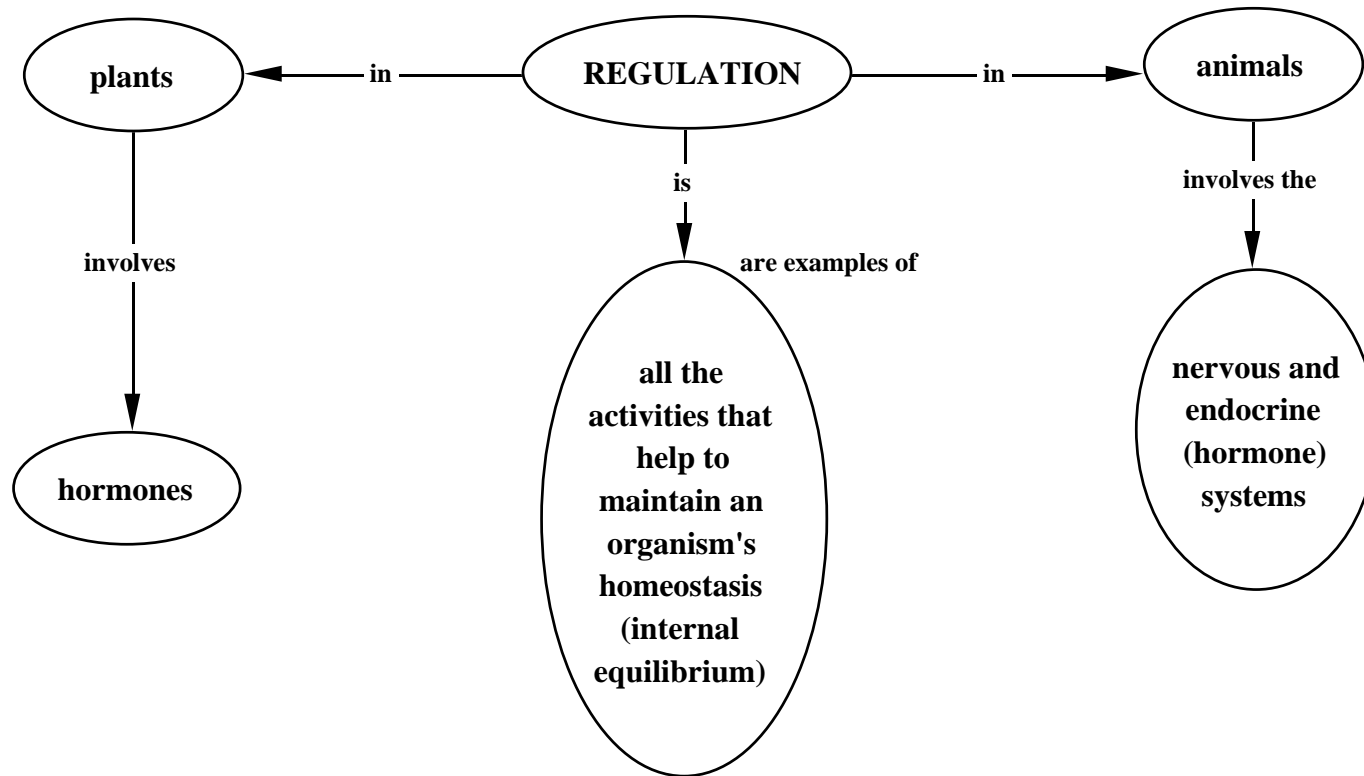


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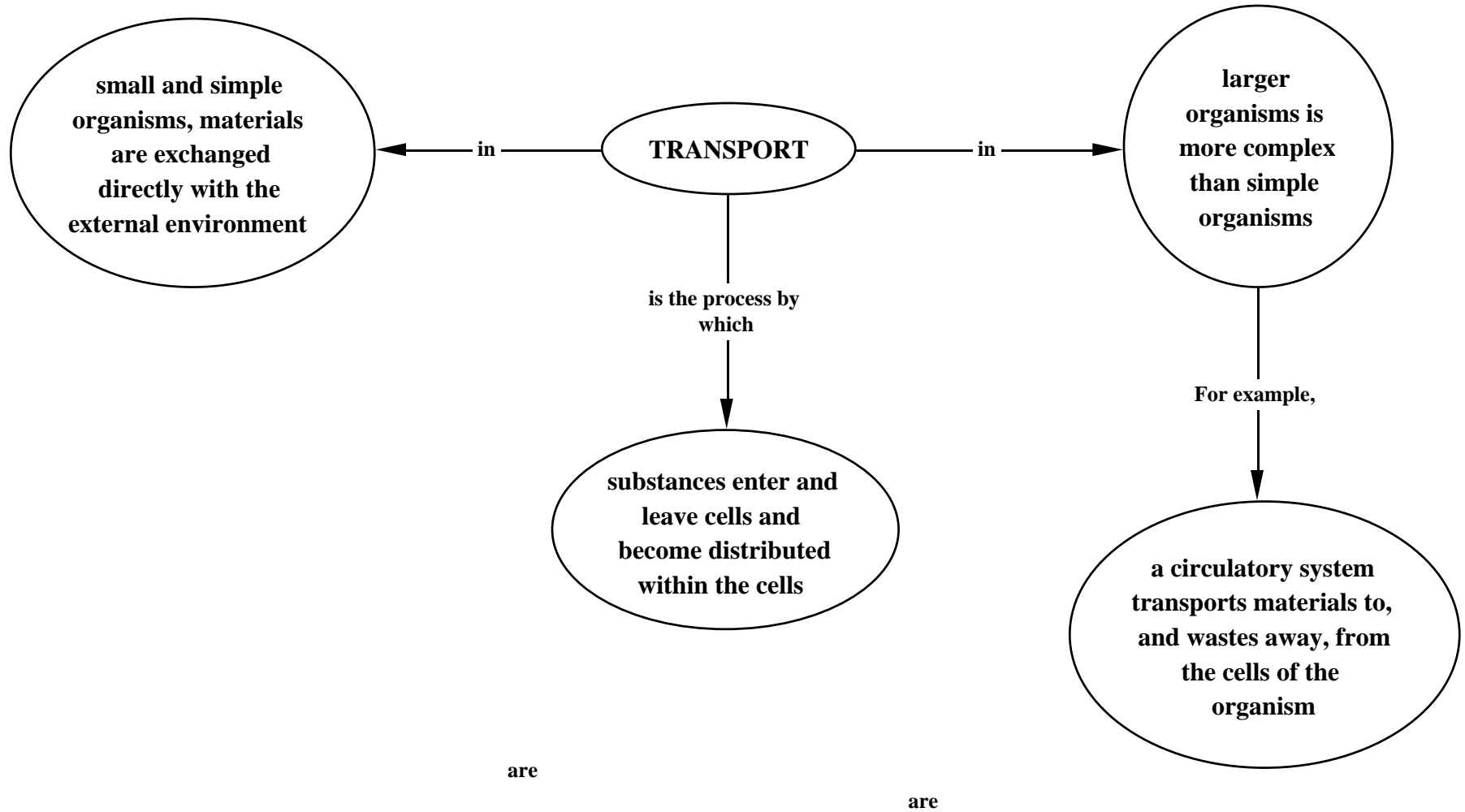
**LIFE PROCESSES:
REGULATION**

reproduce

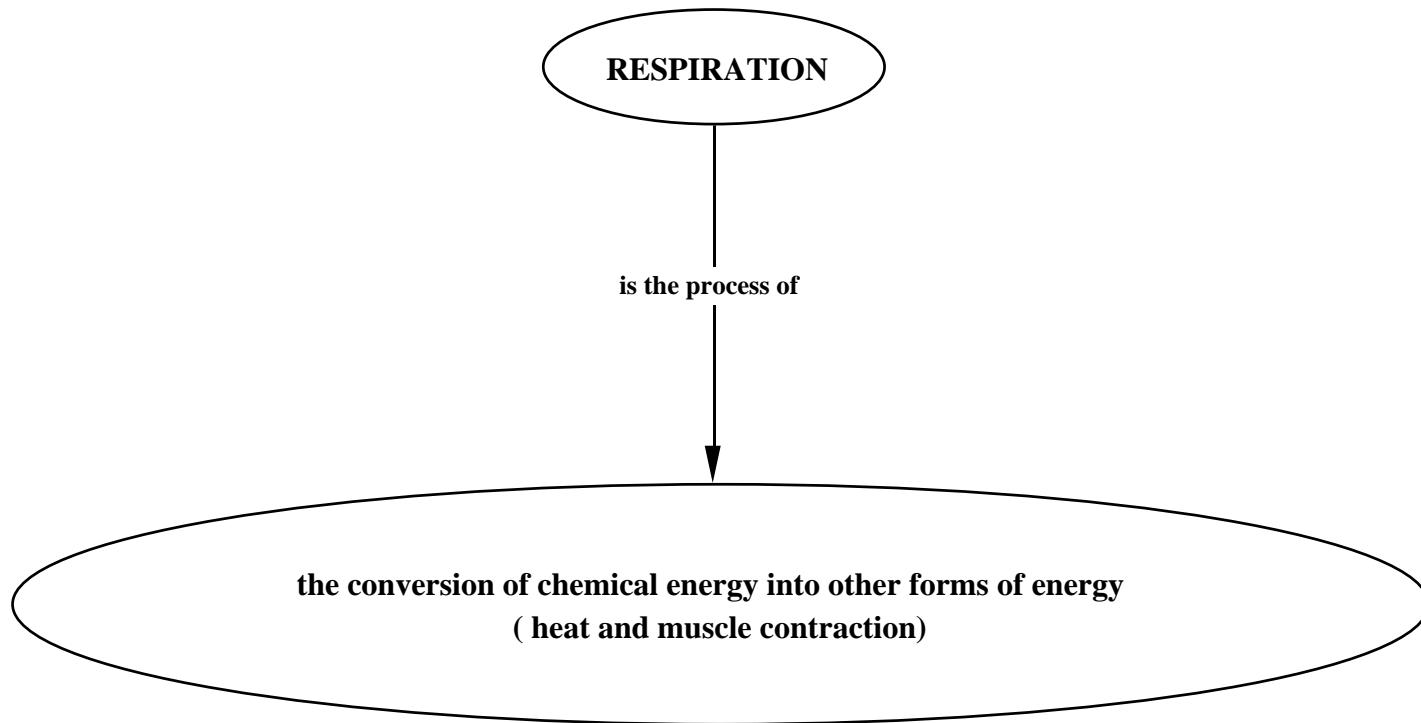


of human

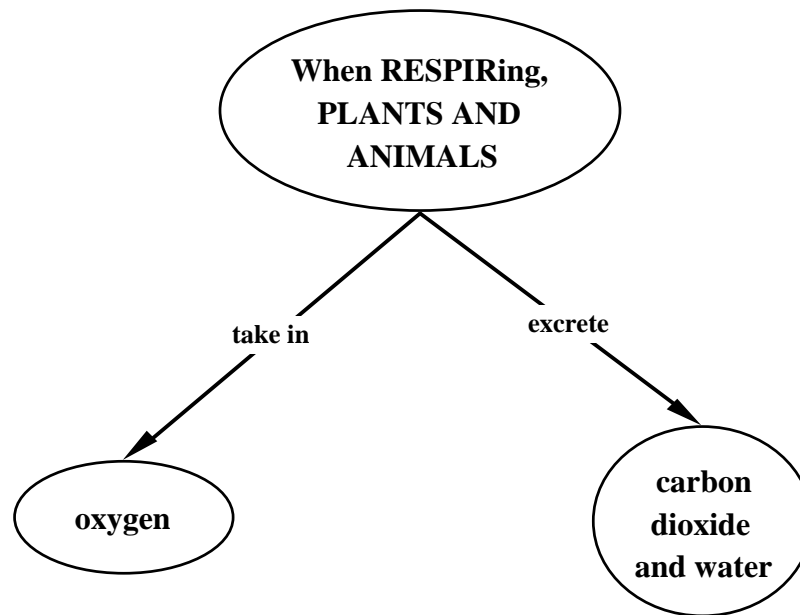
LIFE PROCESSES: TRANSPORT



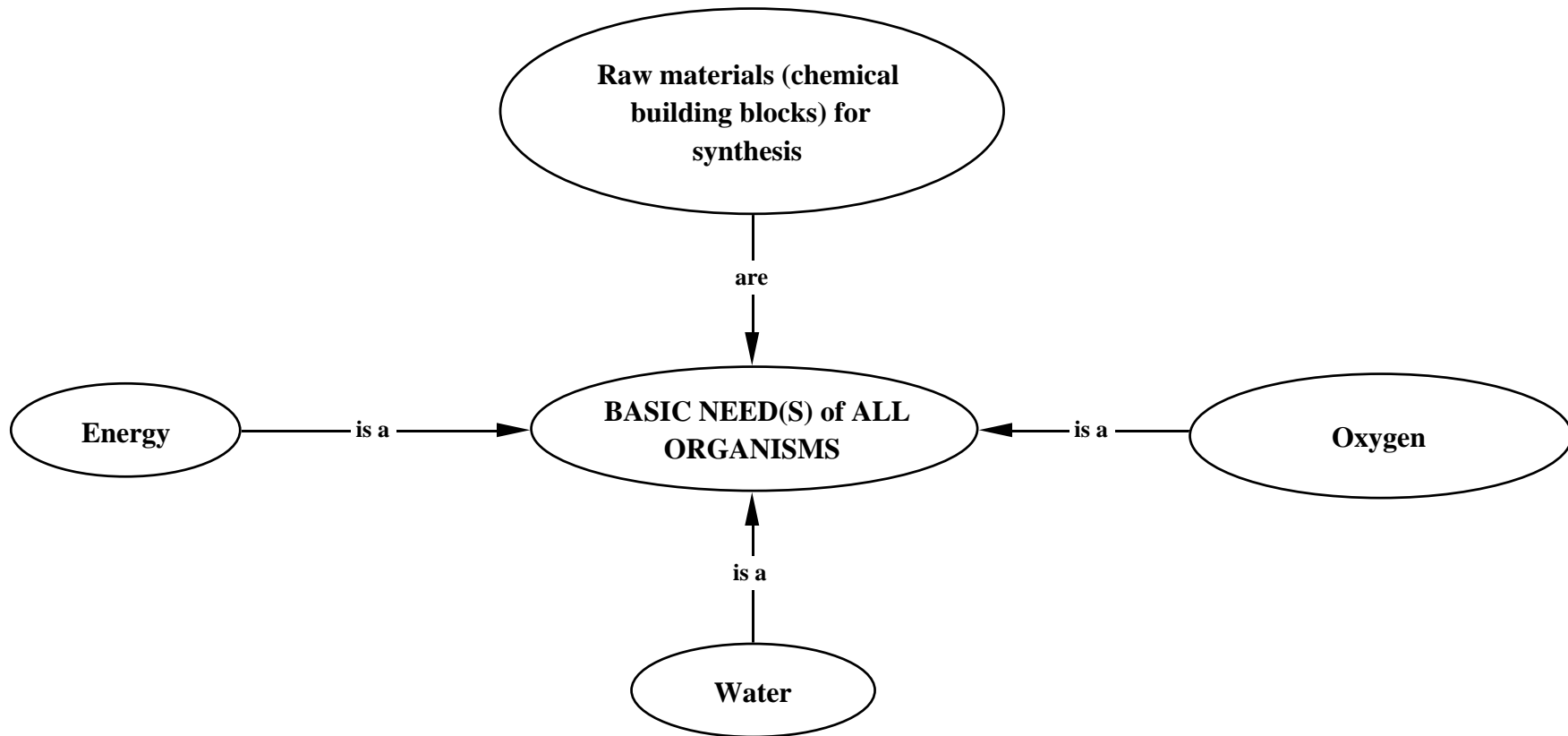
**LIFE PROCESSES:
RESPIRATION**

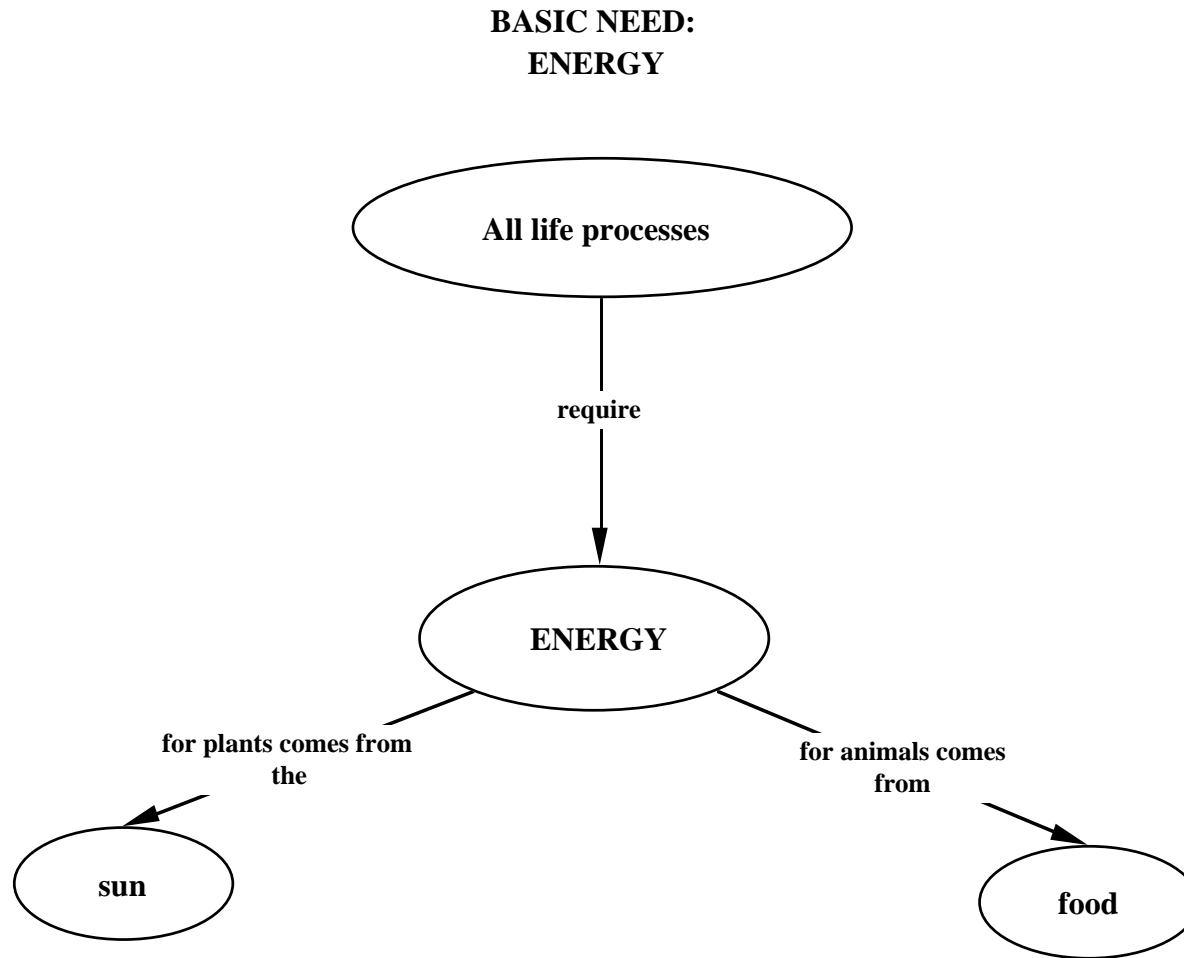


**LIFE PROCESSES:
RESPIRATION IN PLANTS AND ANIMALS**

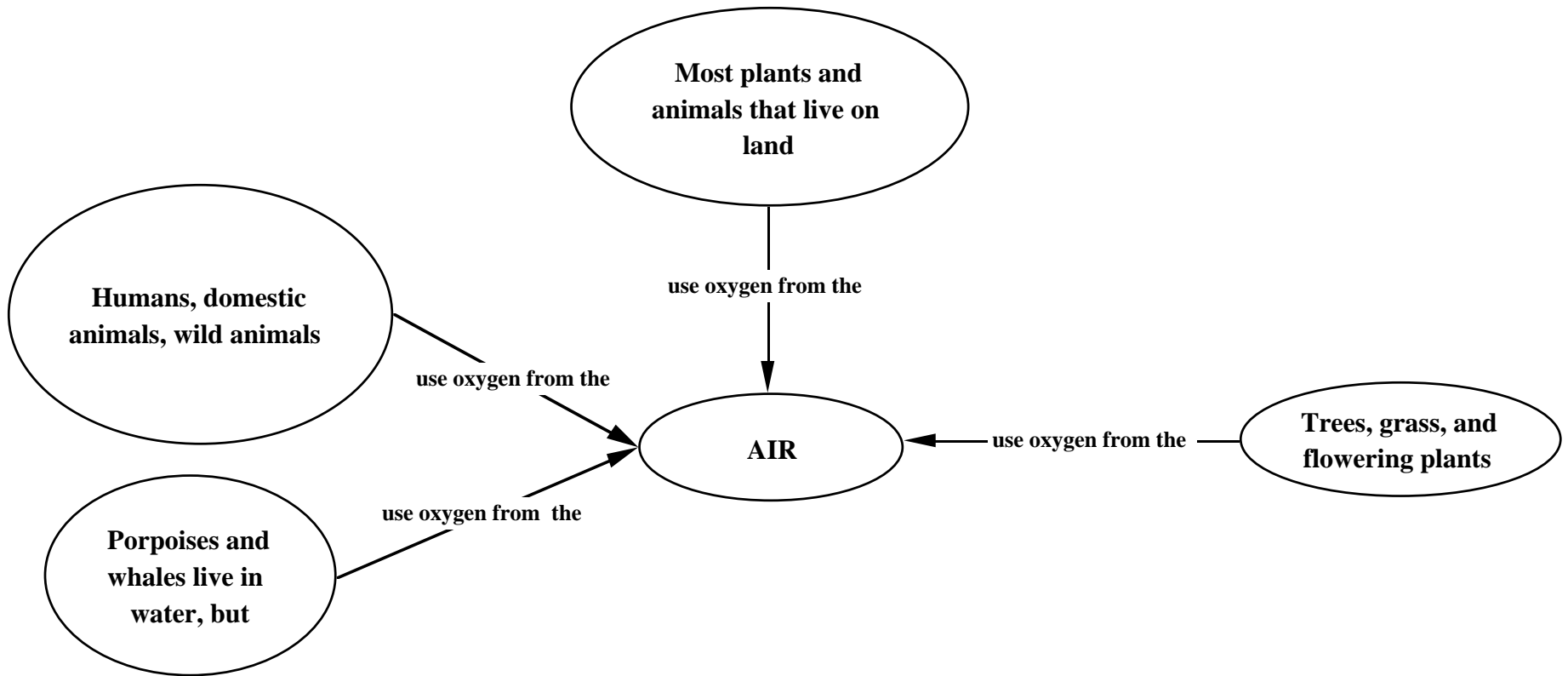


**BASIC NEEDS:
ALL ORGANISMS**

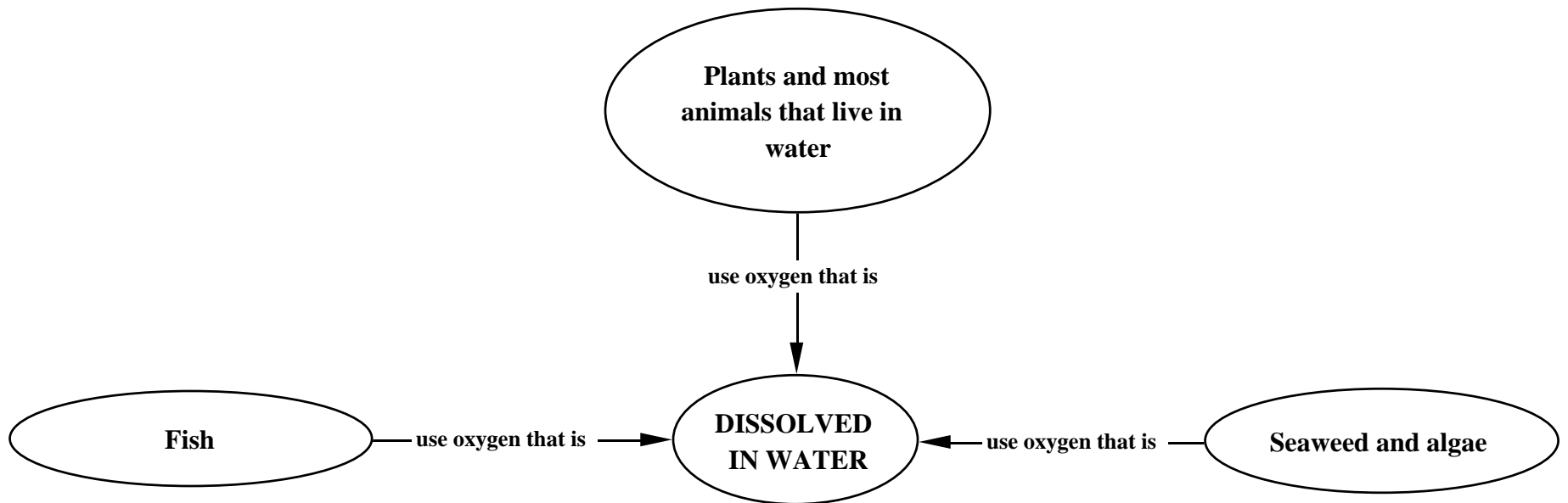




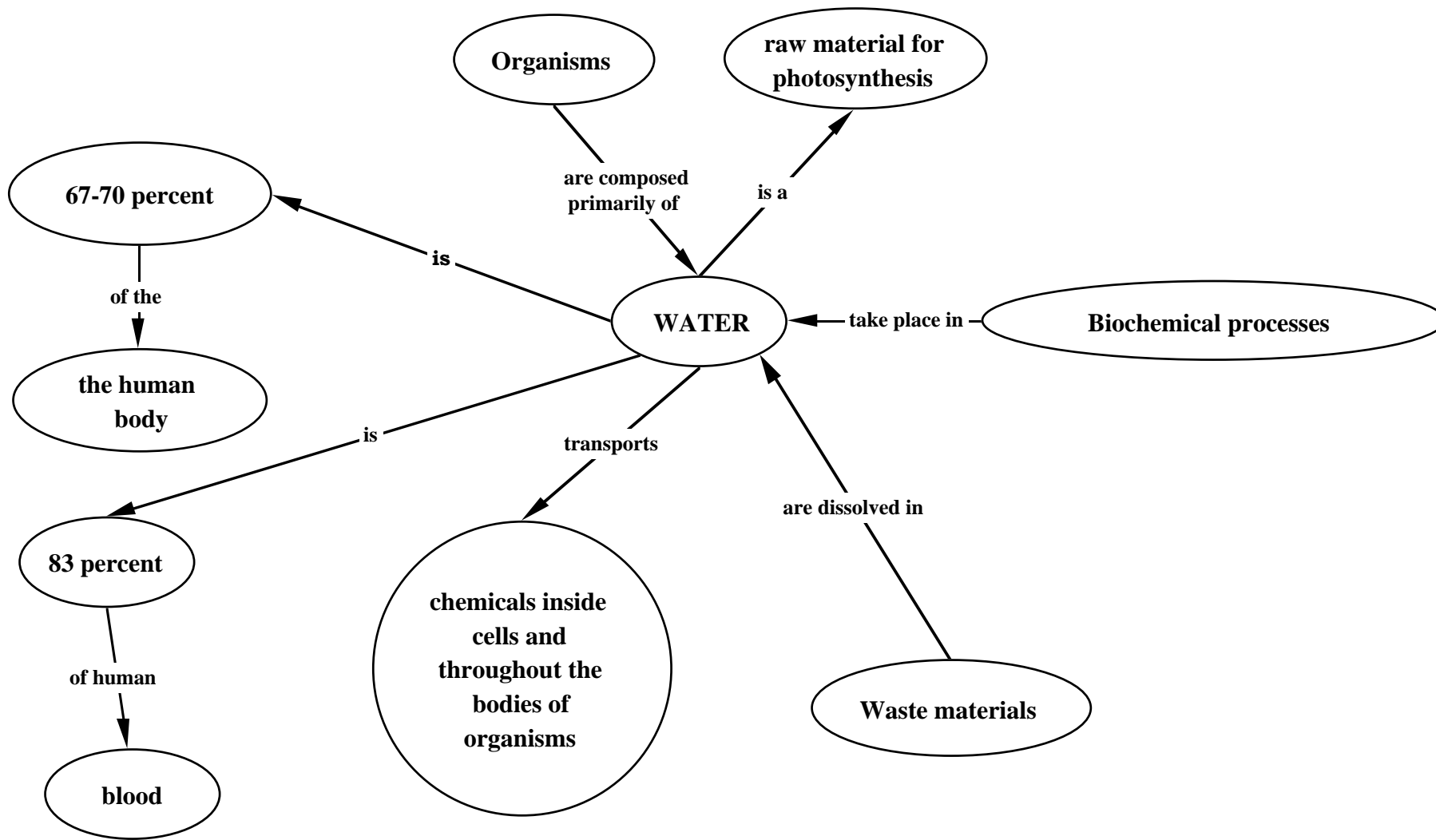
**BASIC NEED:
OXYGEN IN AIR**



**BASIC NEED:
OXYGEN DISSOLVED IN WATER**



**BASIC NEED:
WATER**

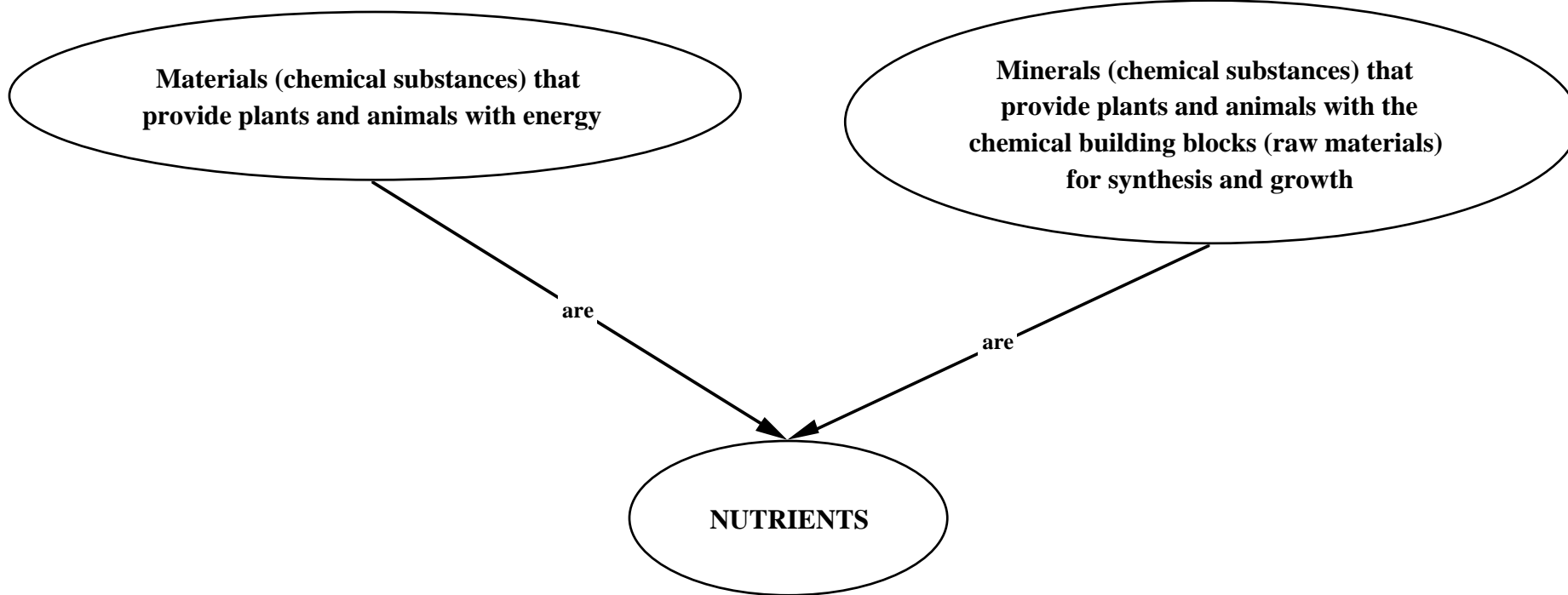


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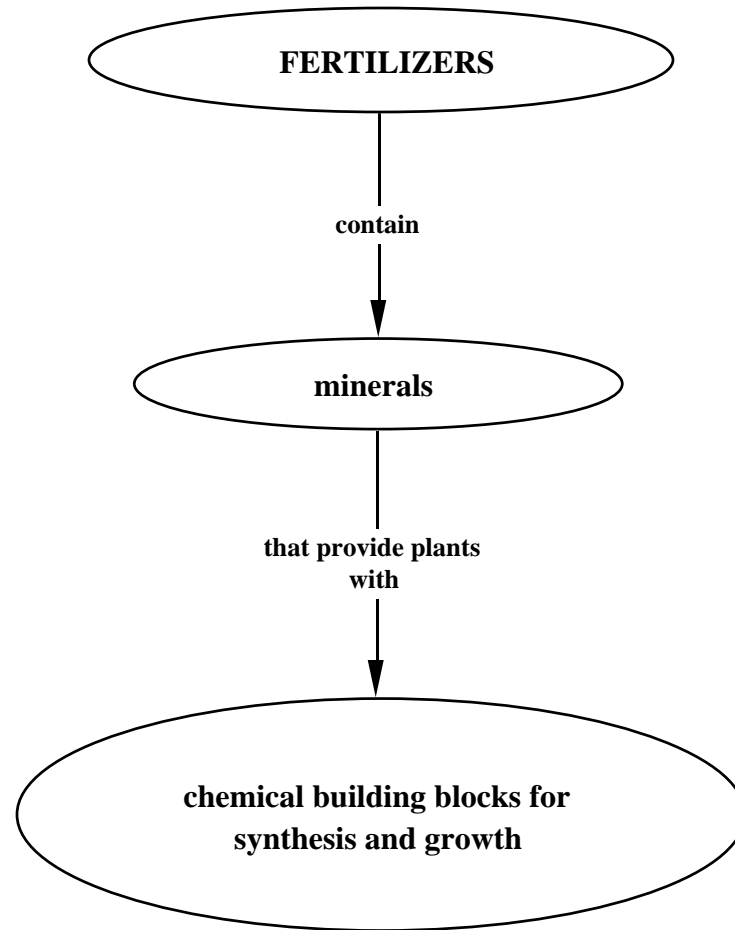
in

~~is the one~~
BASIC NEEDS:
which
NUTRIENTS

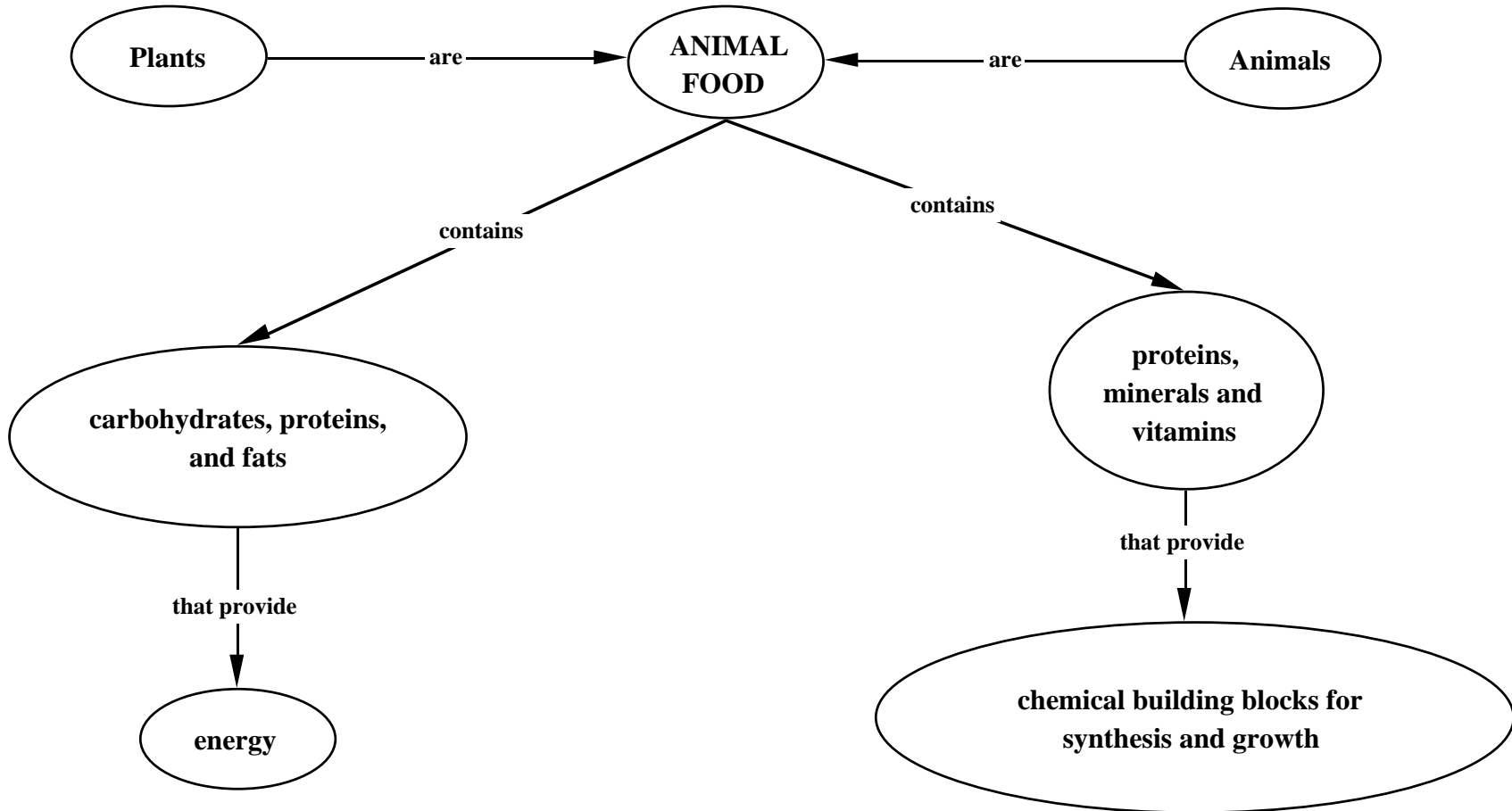
For example,

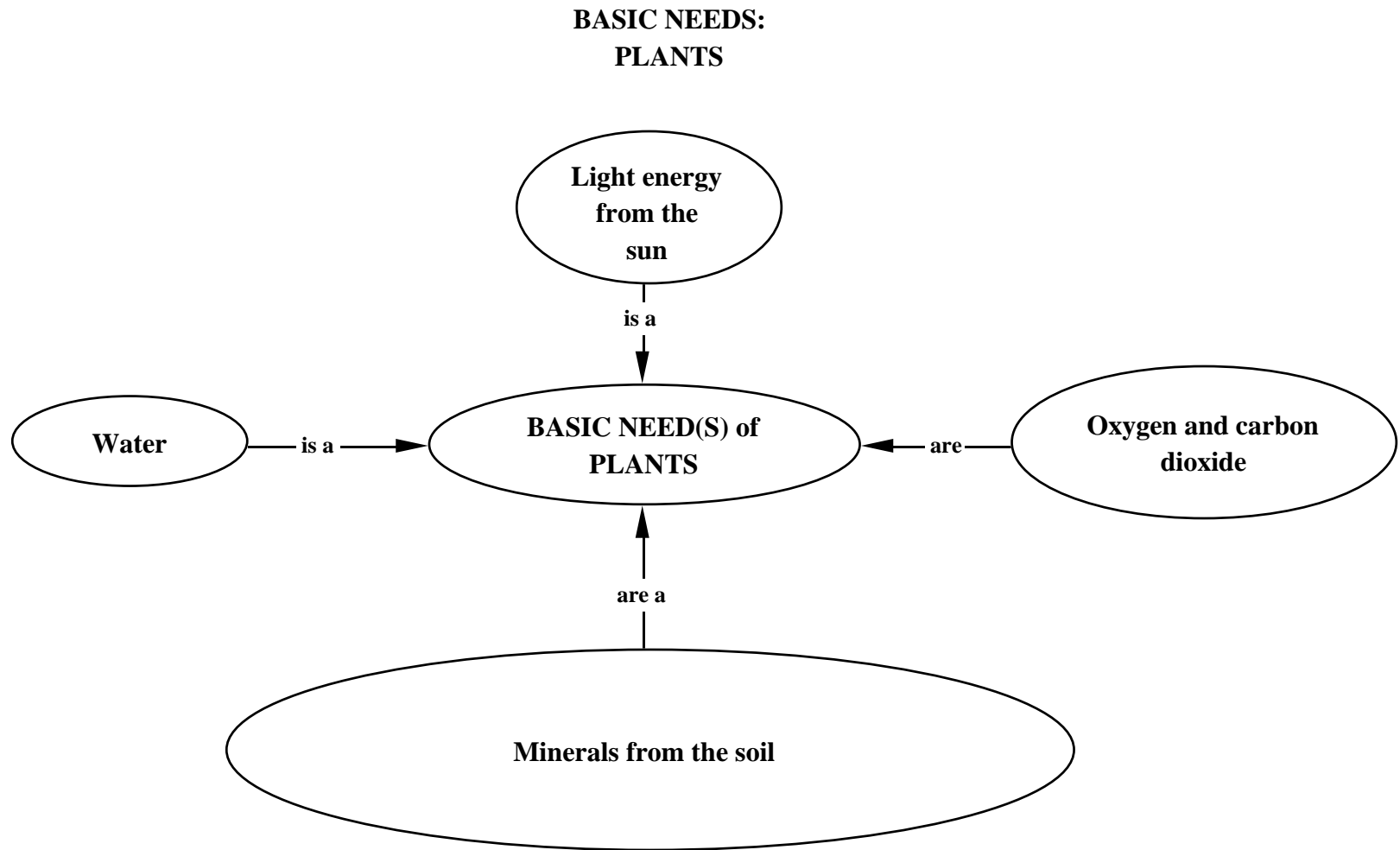


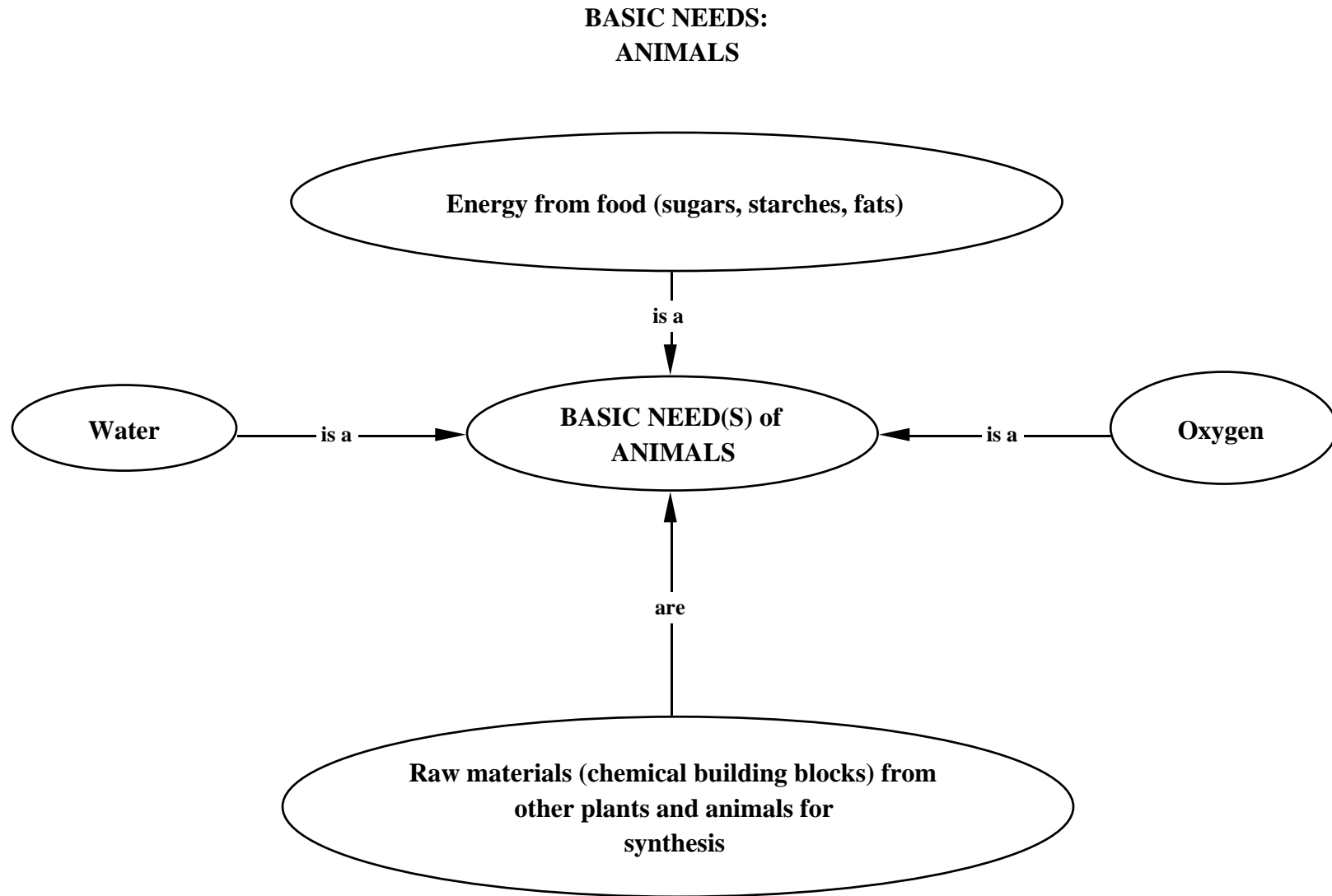
**BASIC NEEDS: NUTRIENTS
FERTILIZERS**



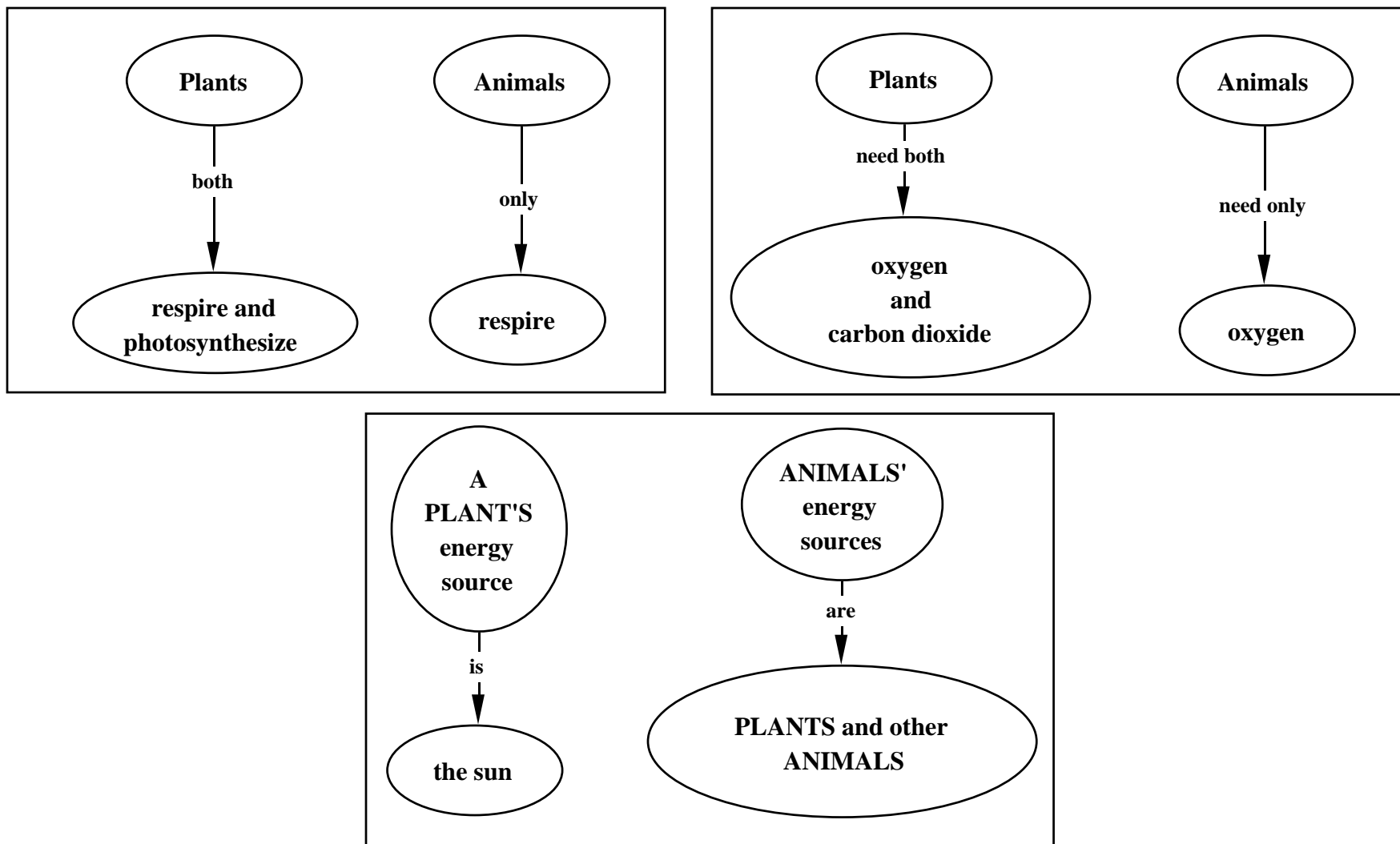
BASIC NEEDS: NUTRIENTS
ANIMAL FOOD



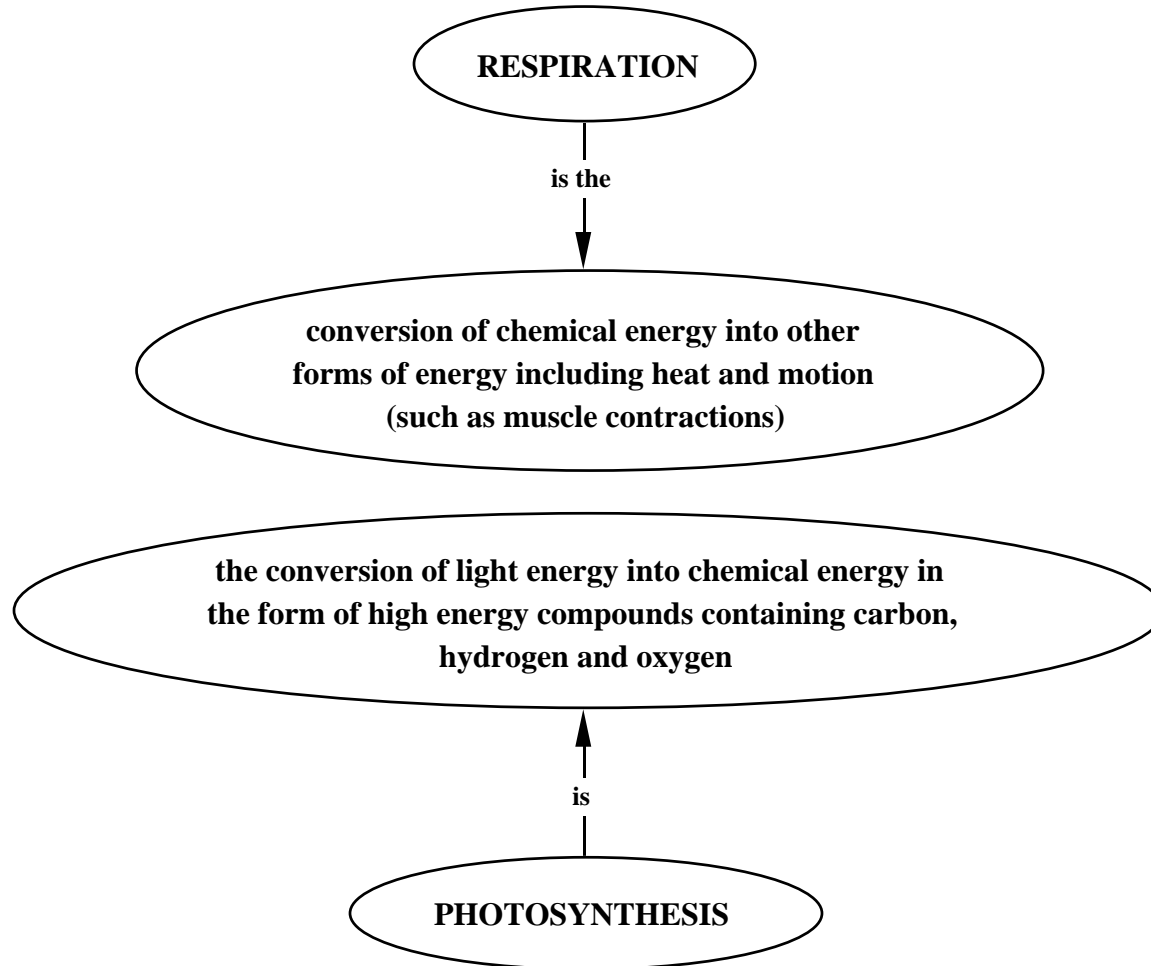




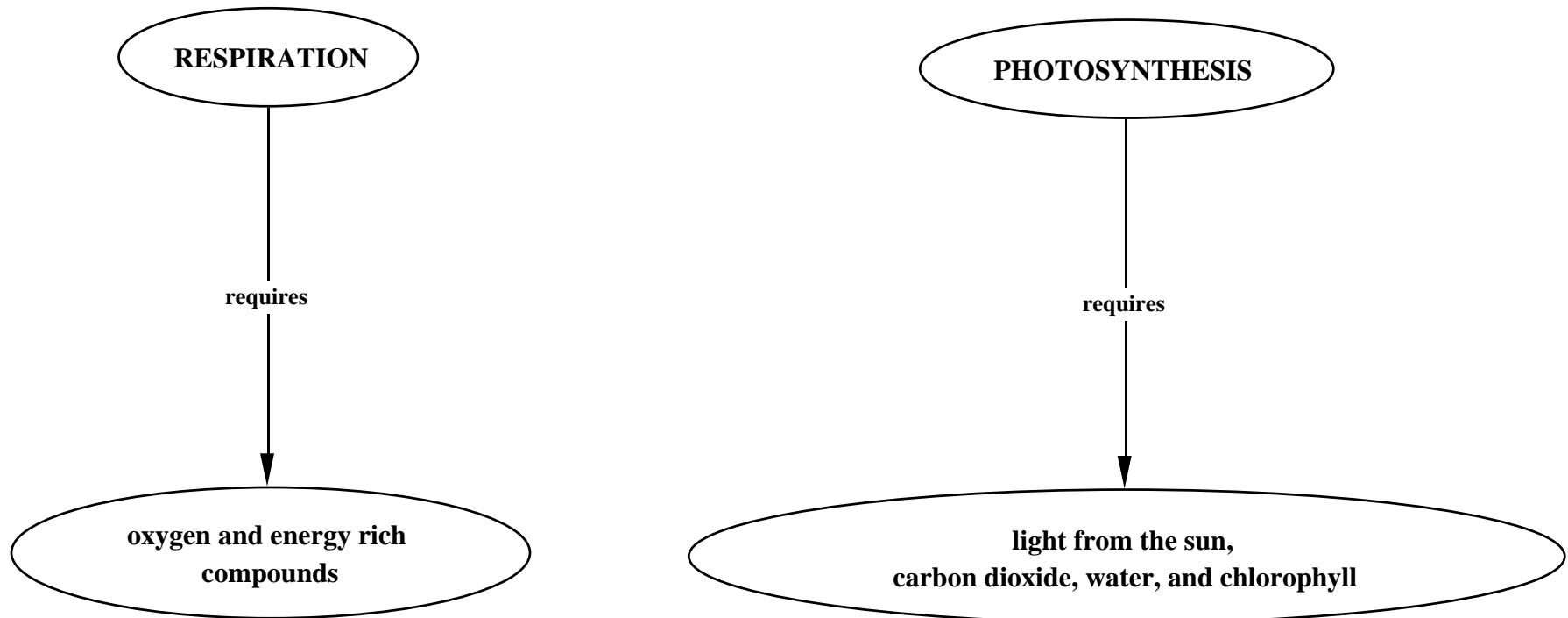
LIFE PROCESSES AND BASIC NEEDS: A COMPARISON OF PLANTS AND ANIMALS



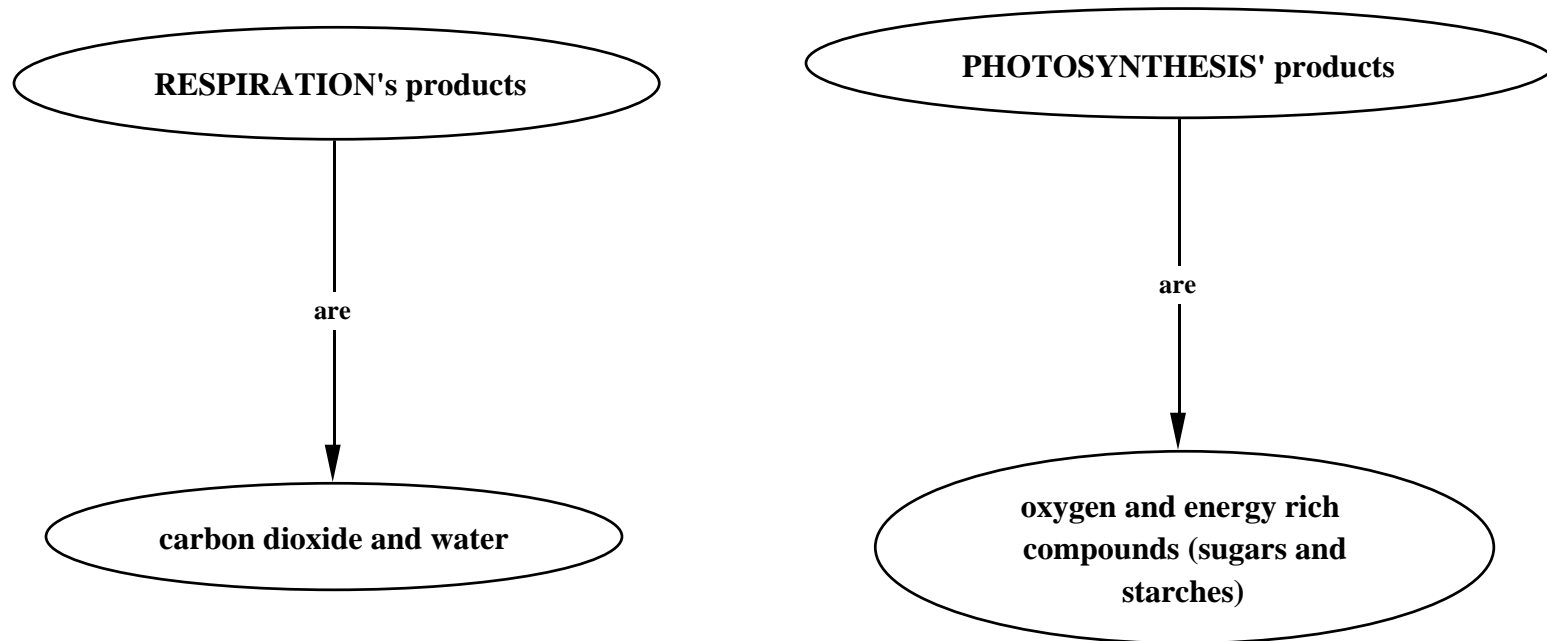
**RESPIRATION AND PHOTOSYNTHESIS:
COMPARISON 1**



**RESPIRATION AND PHOTOSYNTHESIS:
COMPARISON 2**



**RESPIRATION AND PHOTOSYNTHESIS:
COMPARISON 3**



contain

**RESPIRATION AND PHOTOSYNTHESIS:
COMPARISON 4**

that provide plants
with

RESPIRATION

High Energy Compounds + Oxygen —————▶ **Carbon Dioxide + Water + Energy for Life P**

(-C_nH_{2n}O-) + O₂ —————▶ **CO₂ + H₂O + Energy**

PHOTOSYNTHESIS

Carbon Dioxide + Water —————▶ **High Energy Compounds + Oxygen**

CO₂ + H₂O $\xrightarrow[\text{Chlorophyll}]{\text{Sun Light}}$ **(-C_nH_{2n}O-) + O₂**

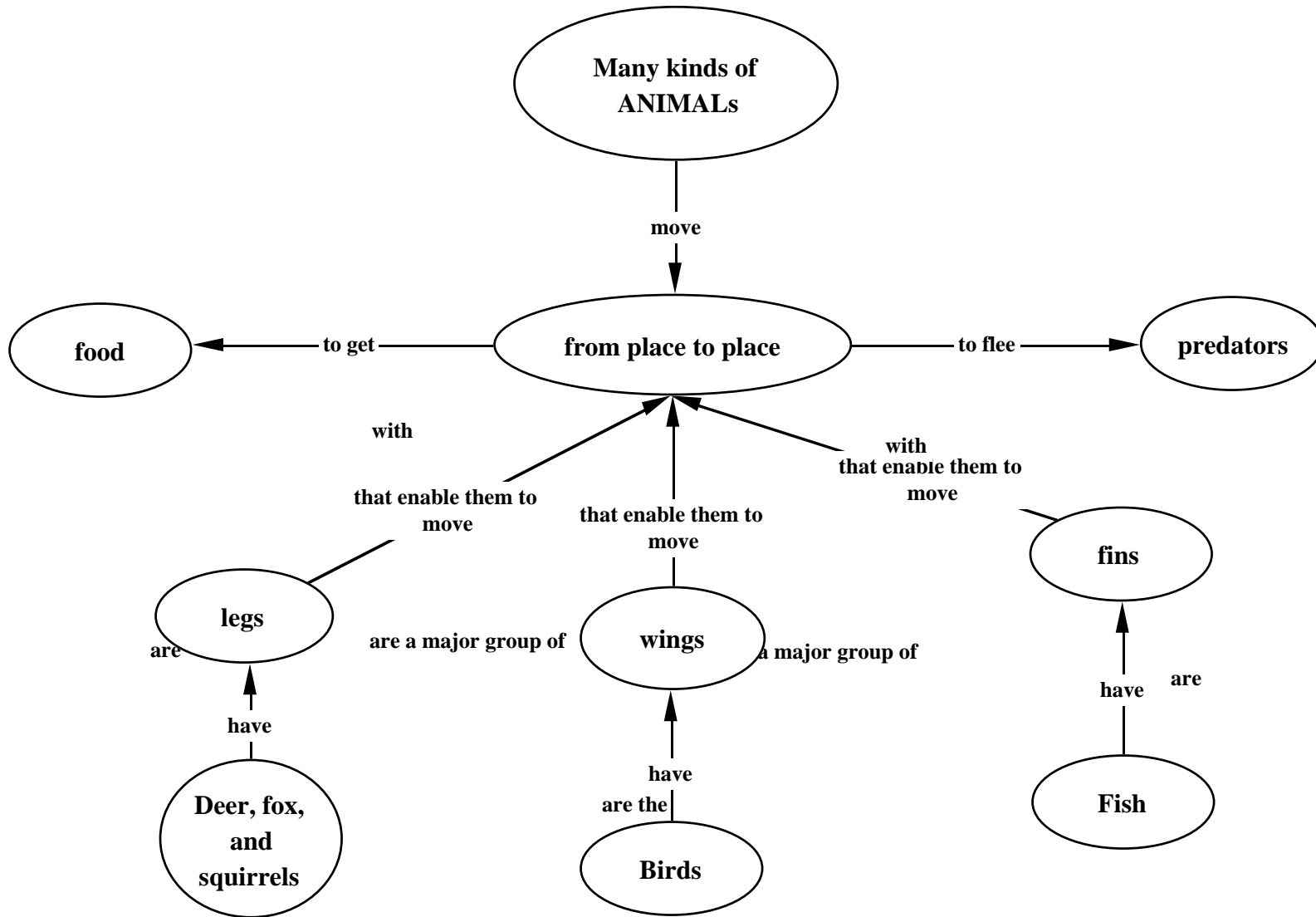
are

are

is in the kingdom

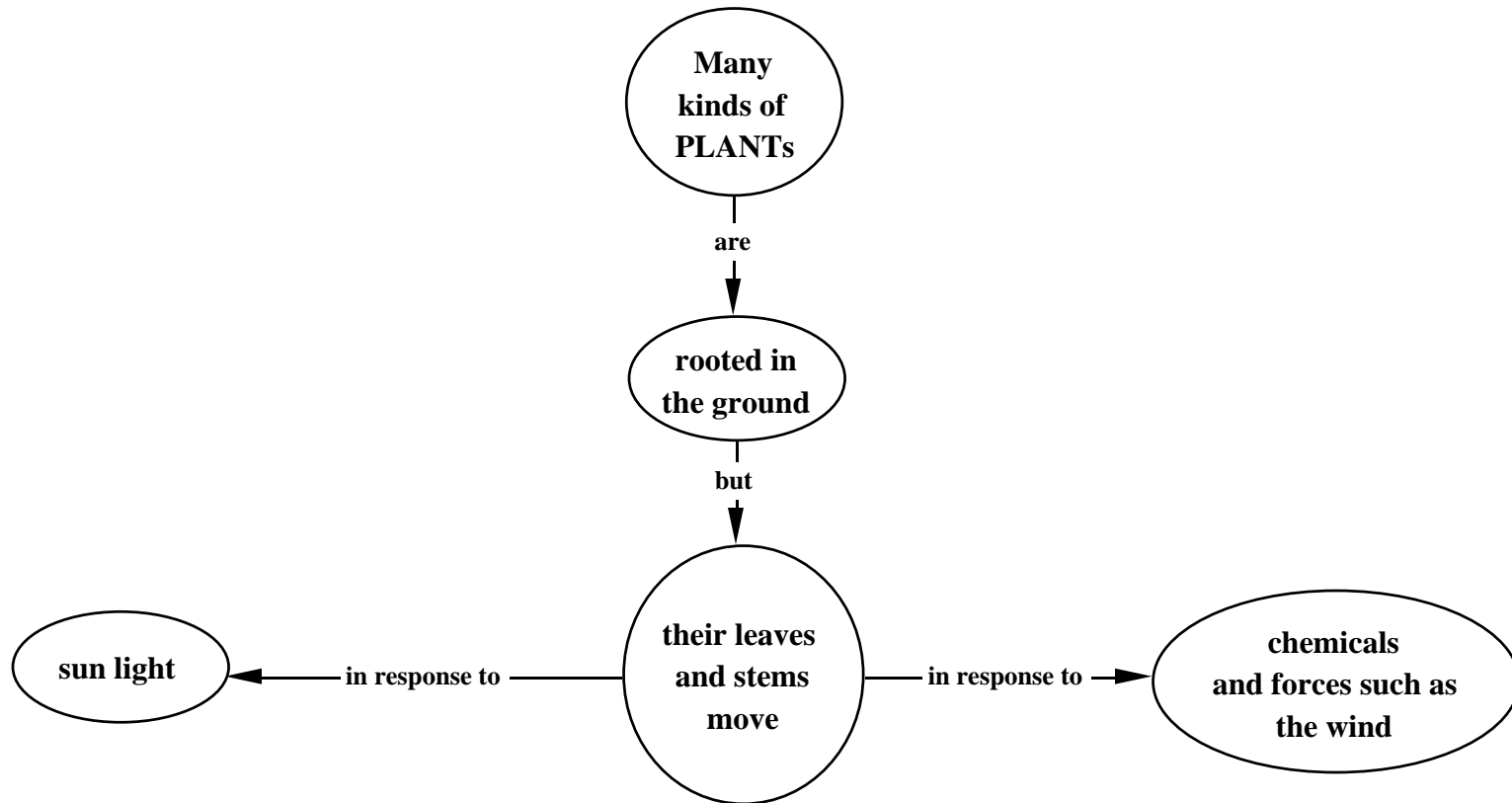
are in the kingdom

ANIMAL MOVEMENT

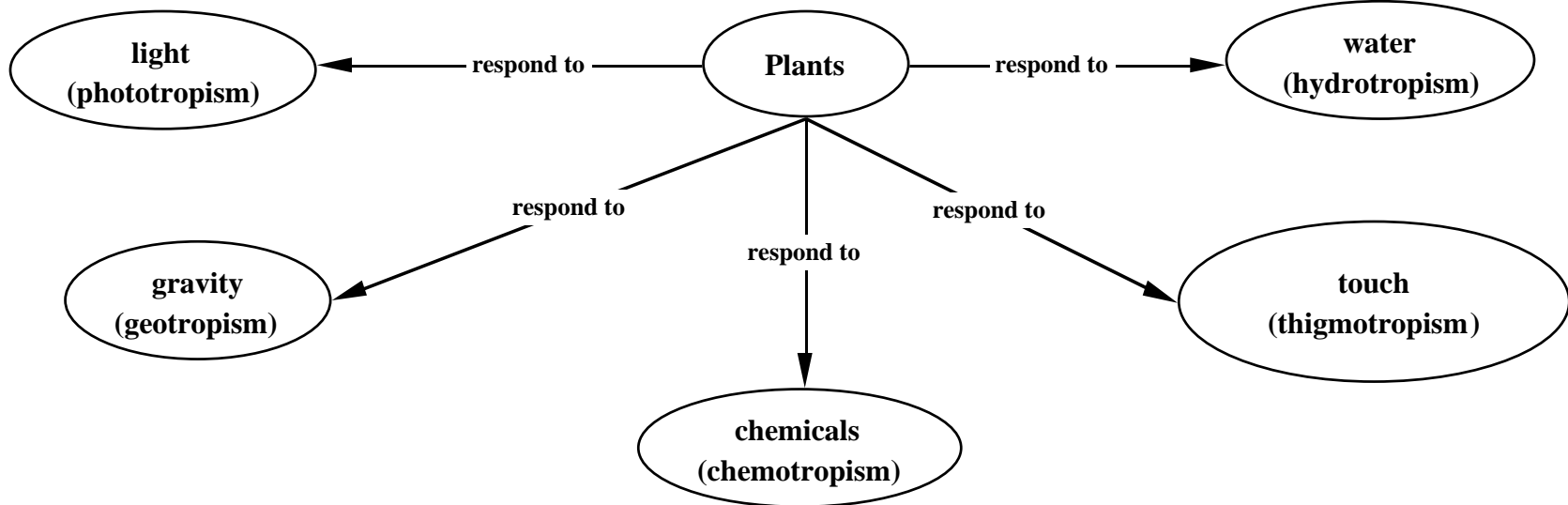
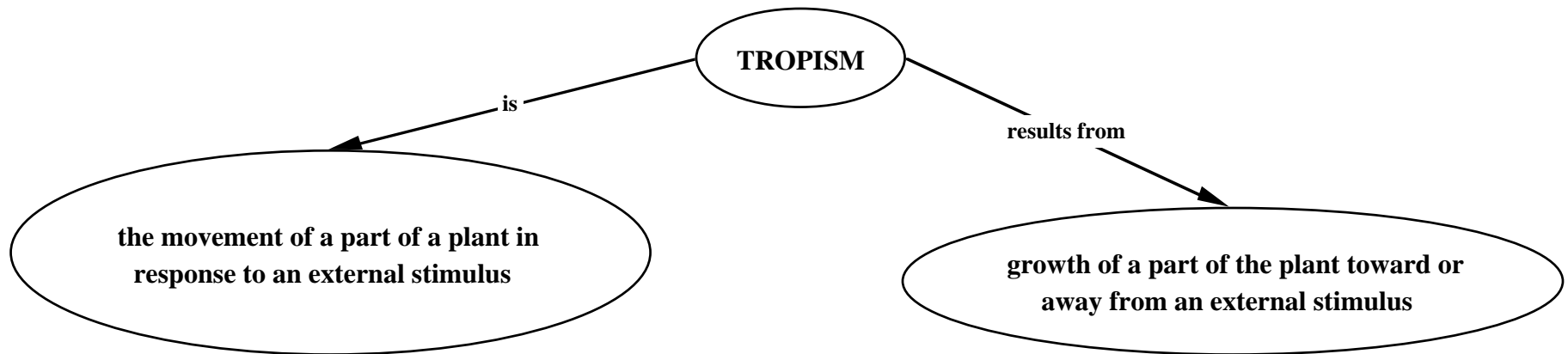


that distinguish

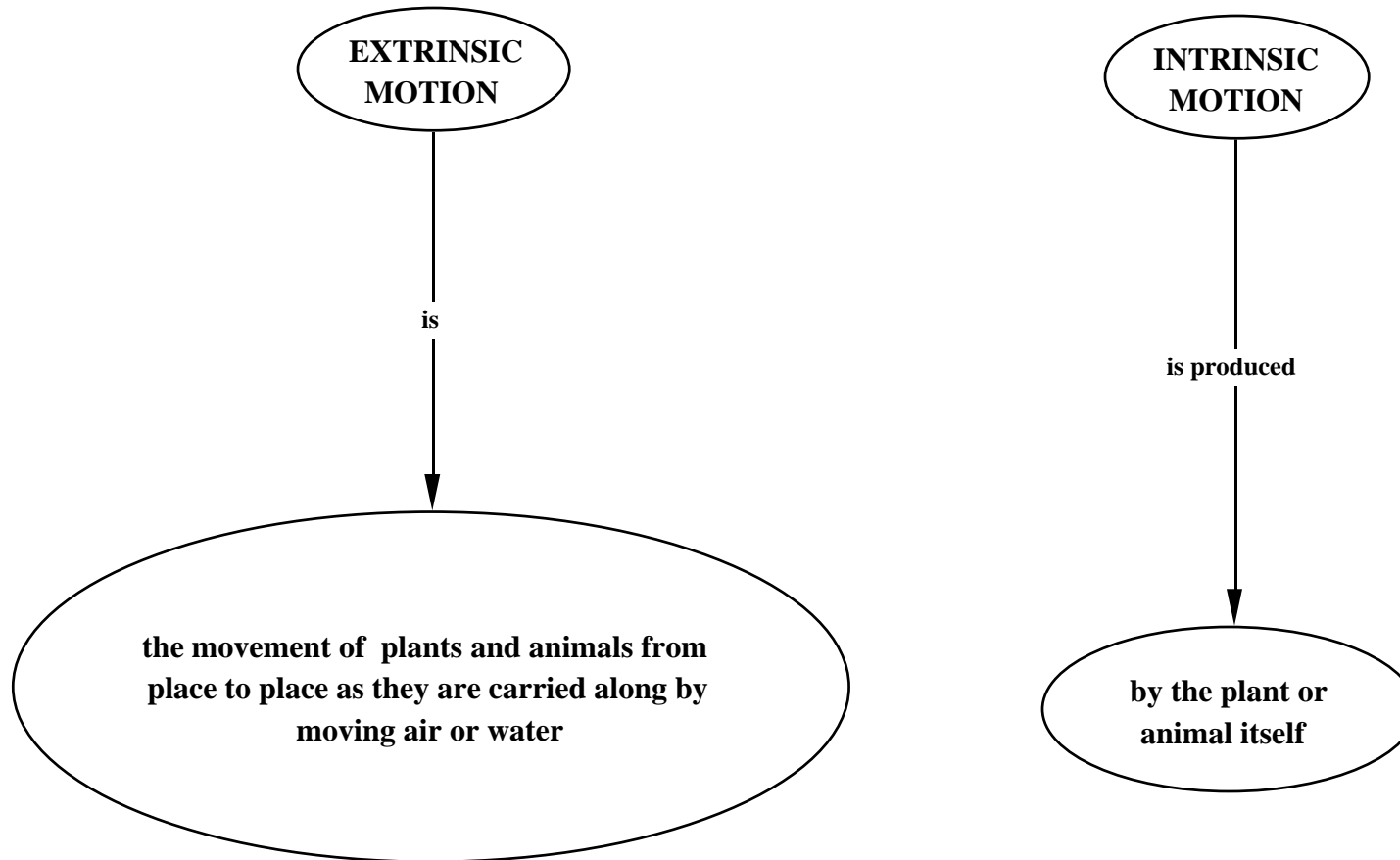
PLANT MOVEMENT



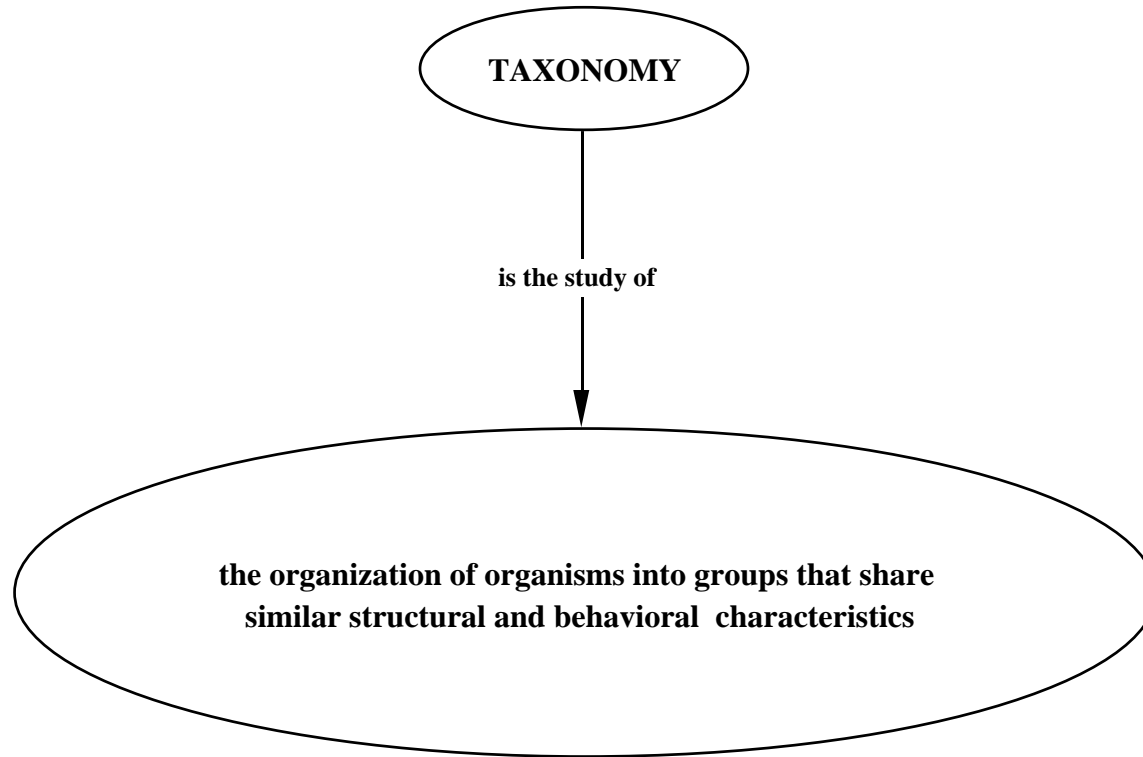
TROPISMS



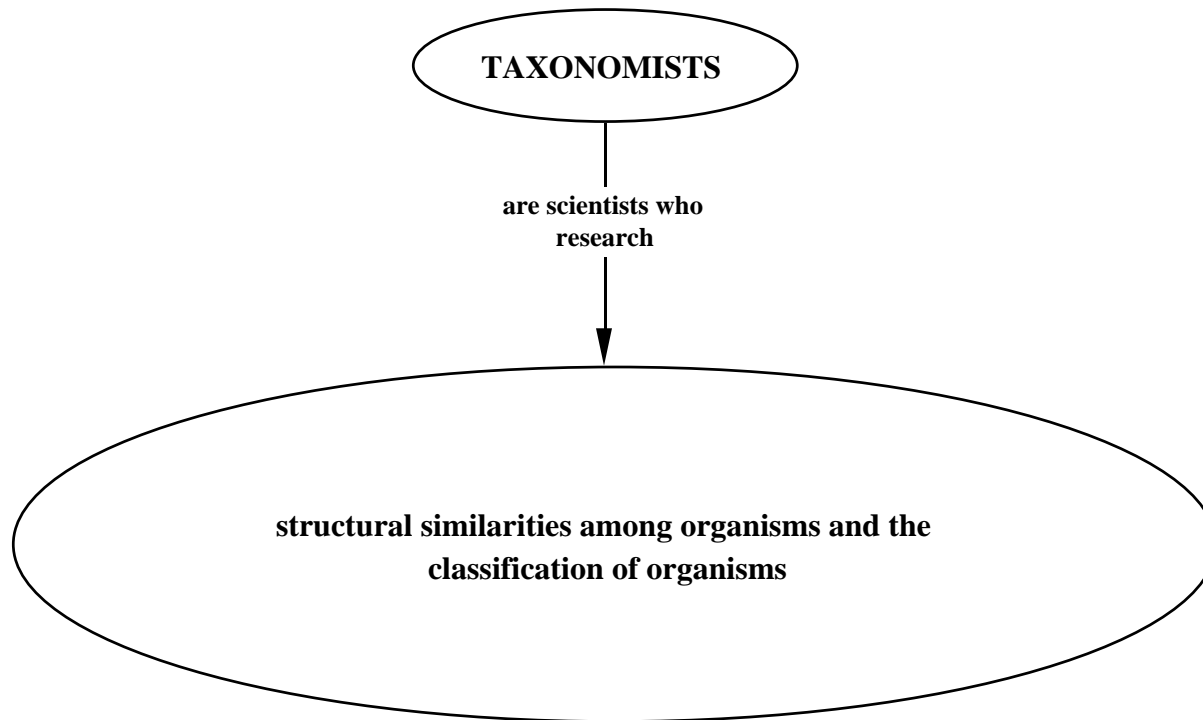
EXTRINSIC AND INTRINSIC MOTION



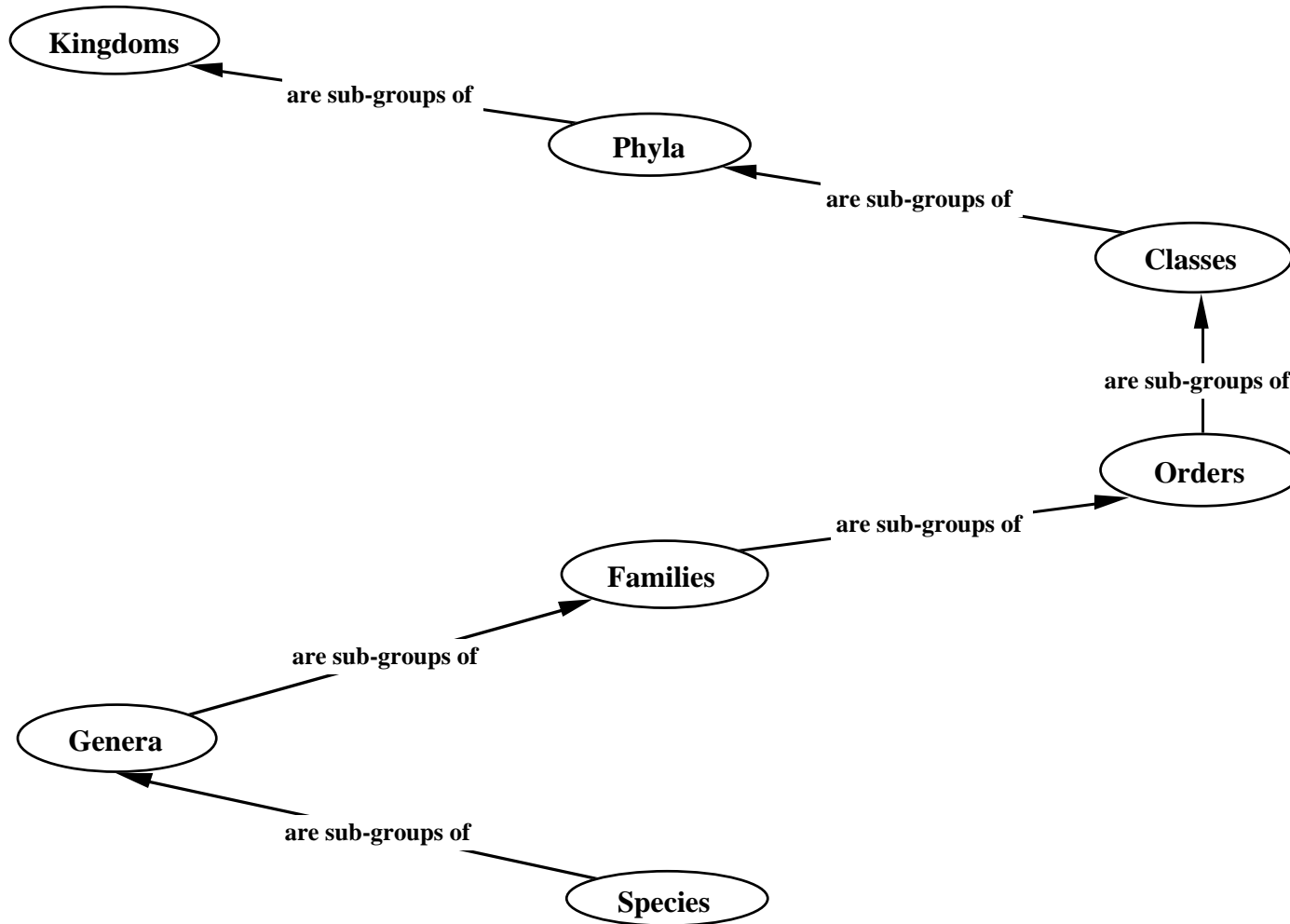
TAXONOMY



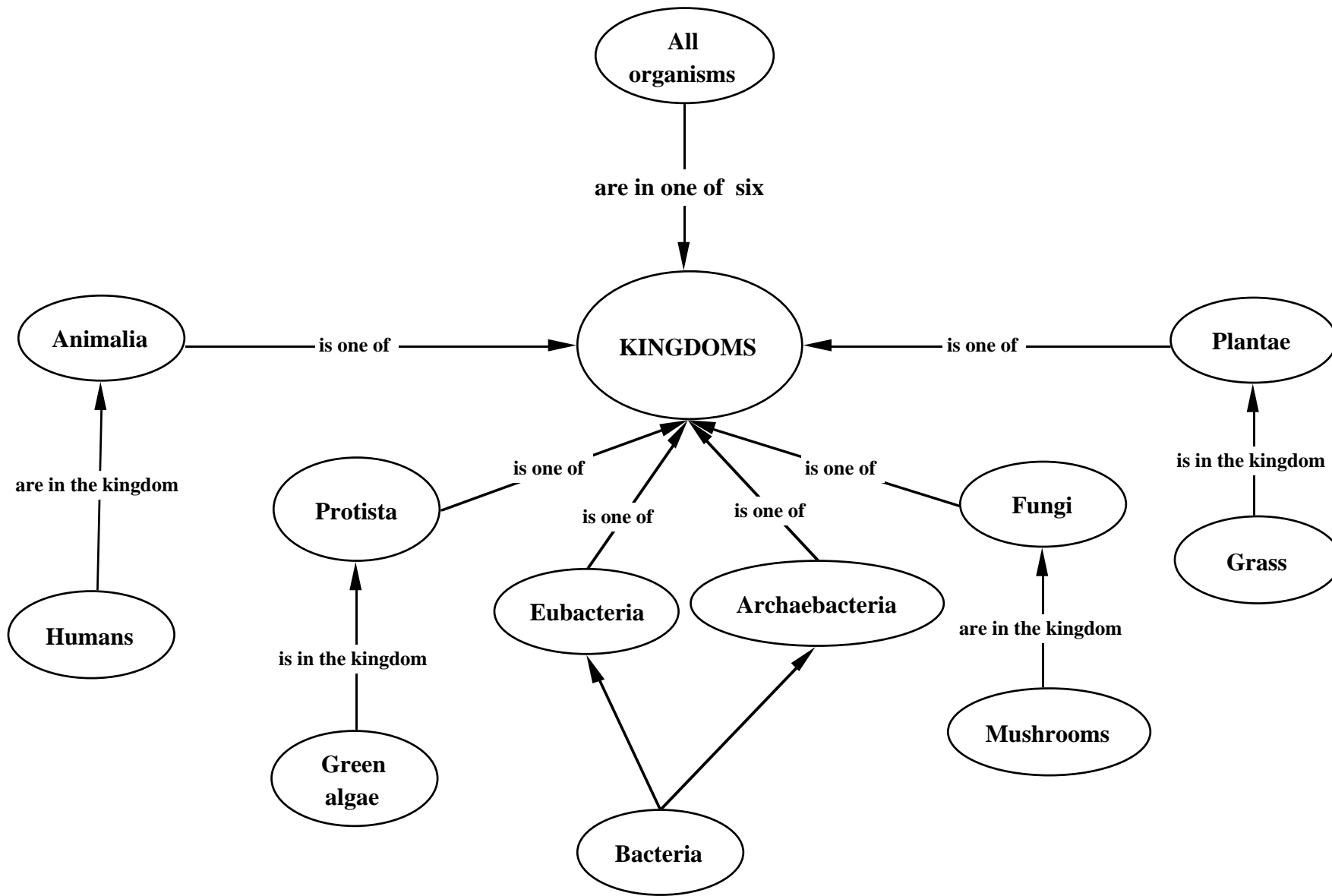
TAXONOMISTS



TAXONOMICAL GROUPS

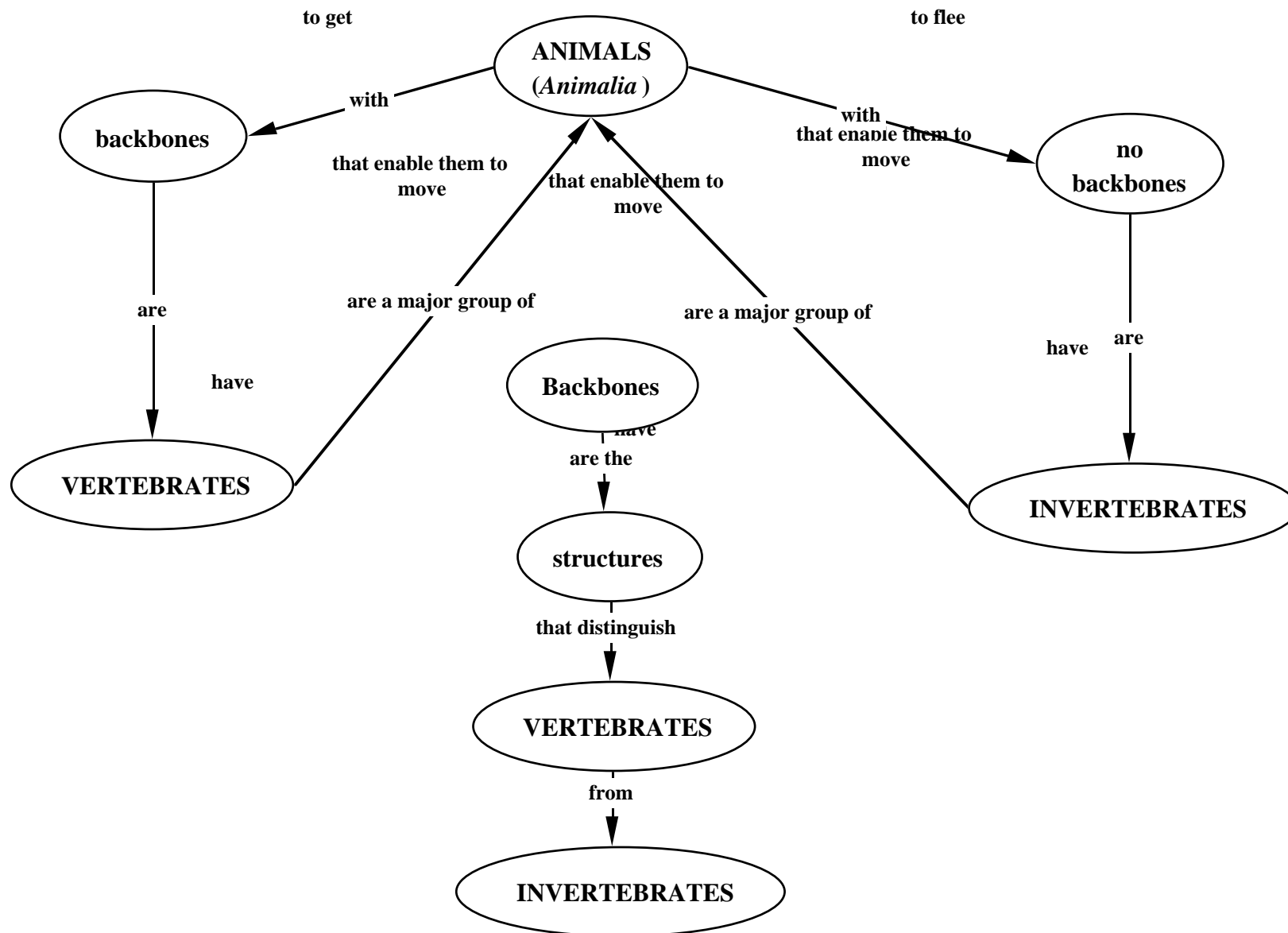


TAXONOMIC KINGDOMS

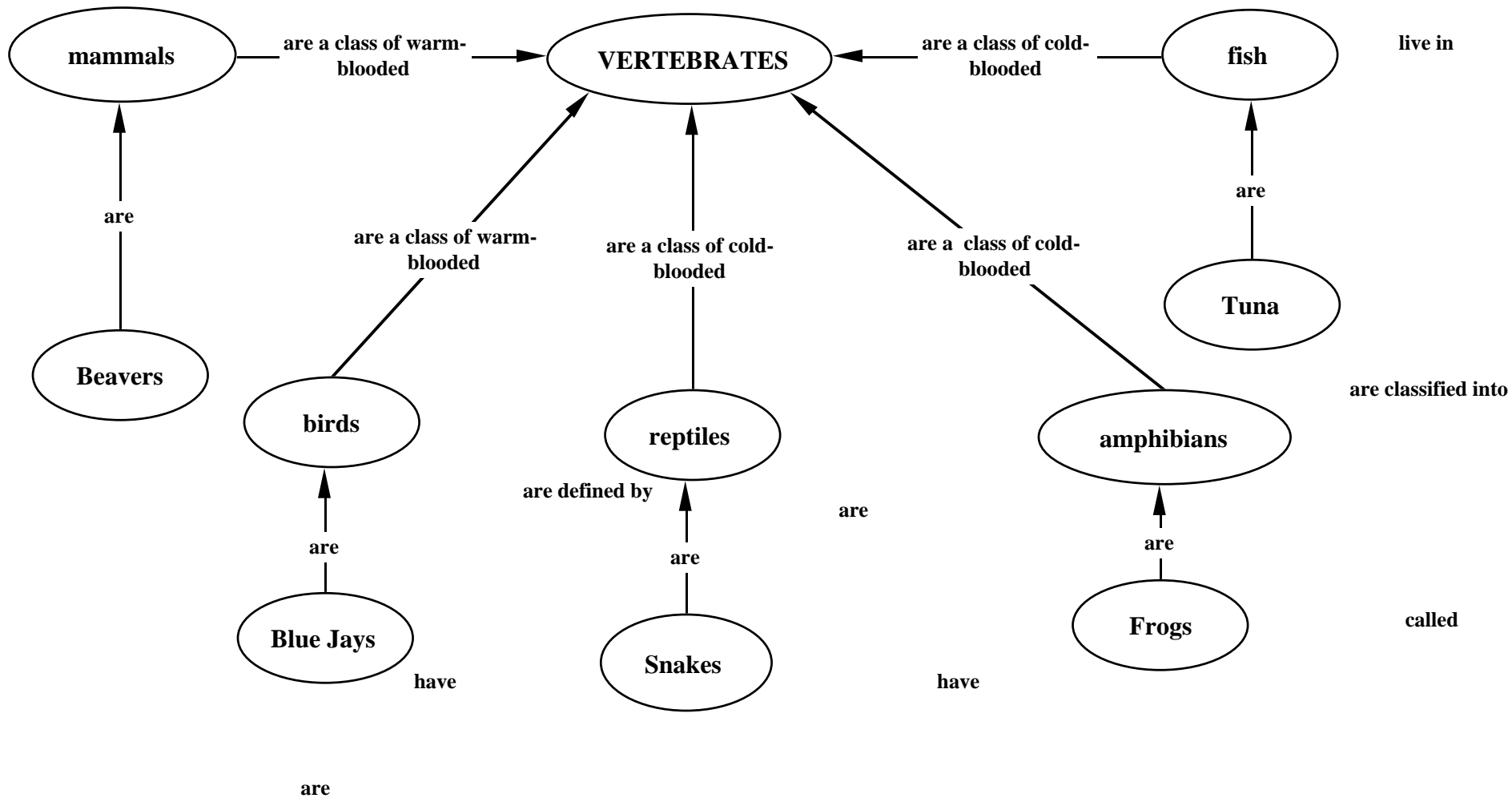


move

ANIMAL KINGDOM: VERTEBRATES AND INVERTEBRATES



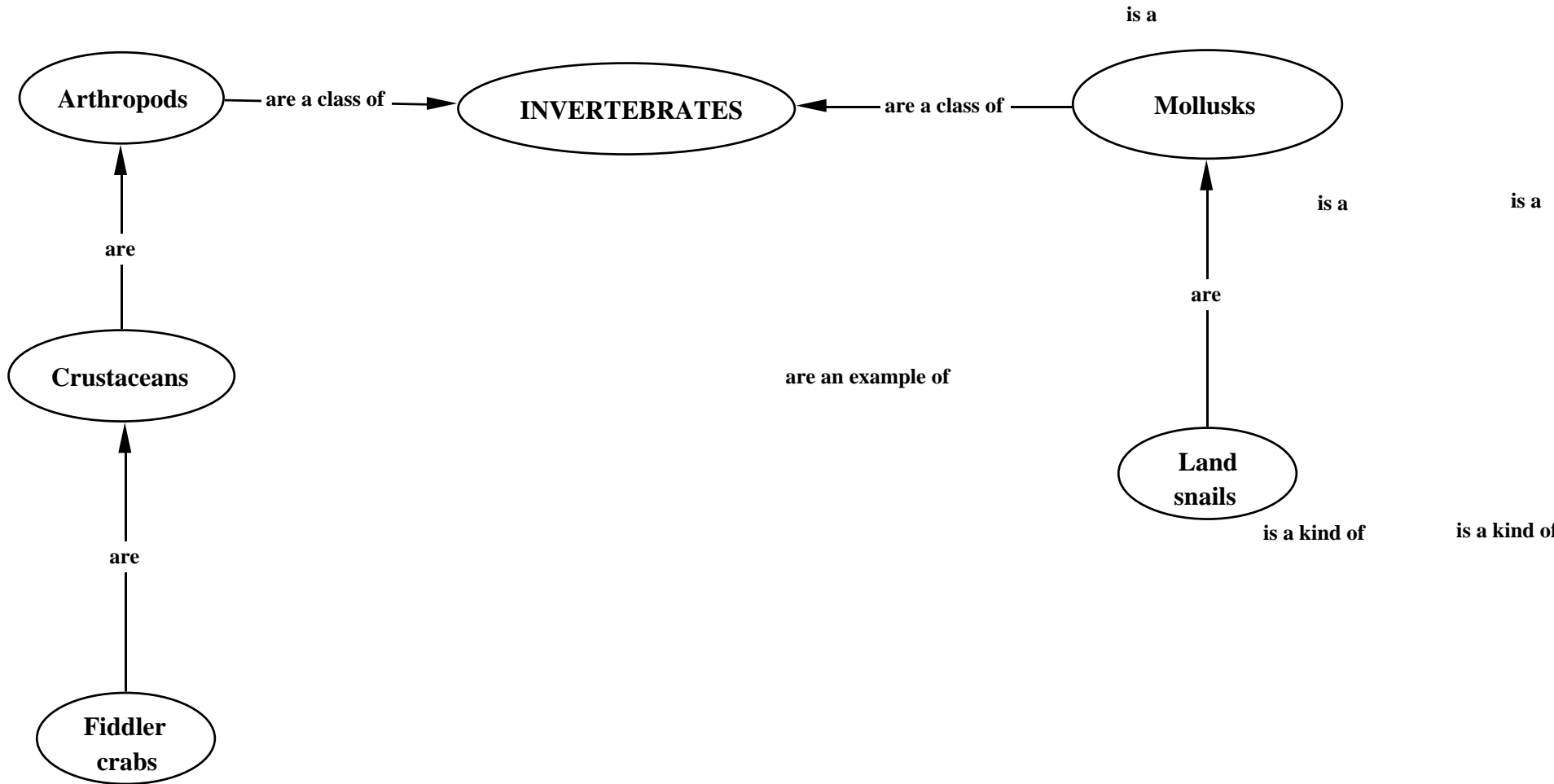
VERTEBRATES: EXAMPLES



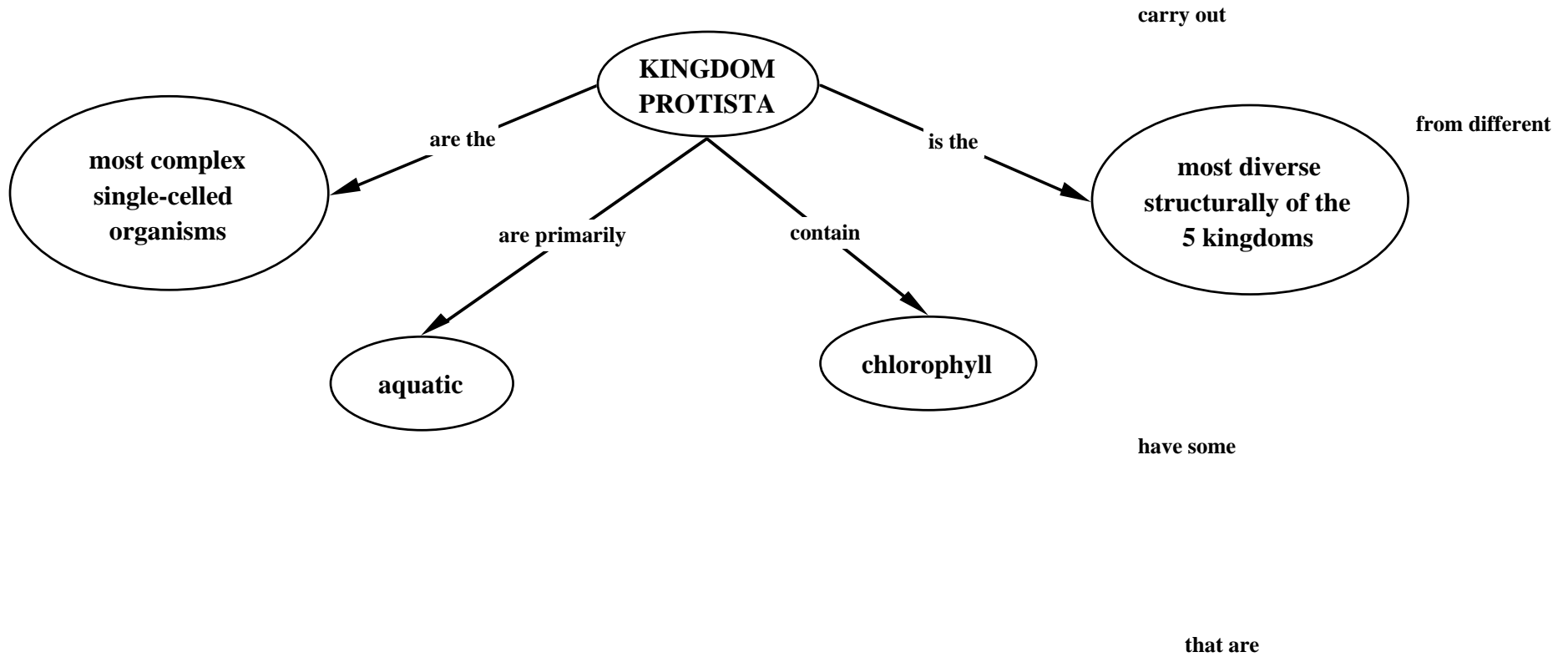
is a is a

occur in

INVERTEBRATES: EXAMPLES

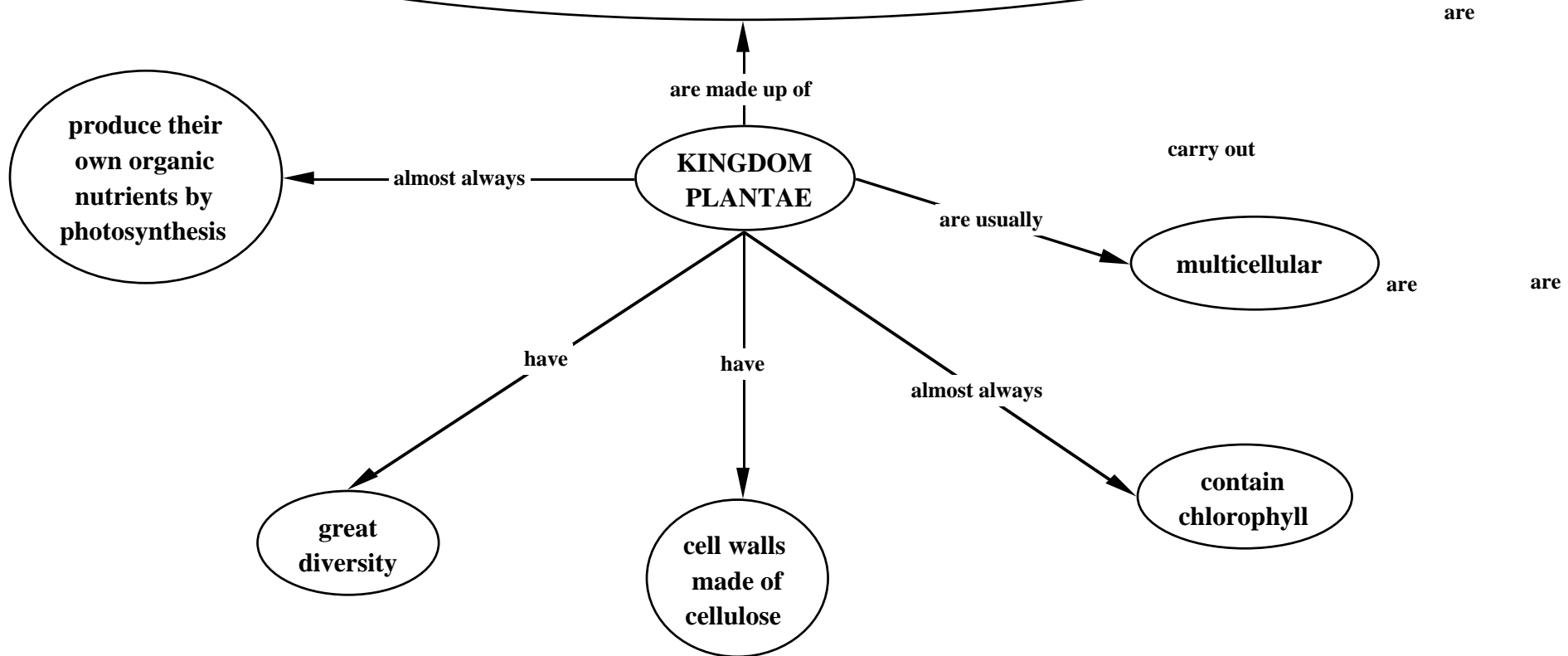


KINGDOM PROTISTA

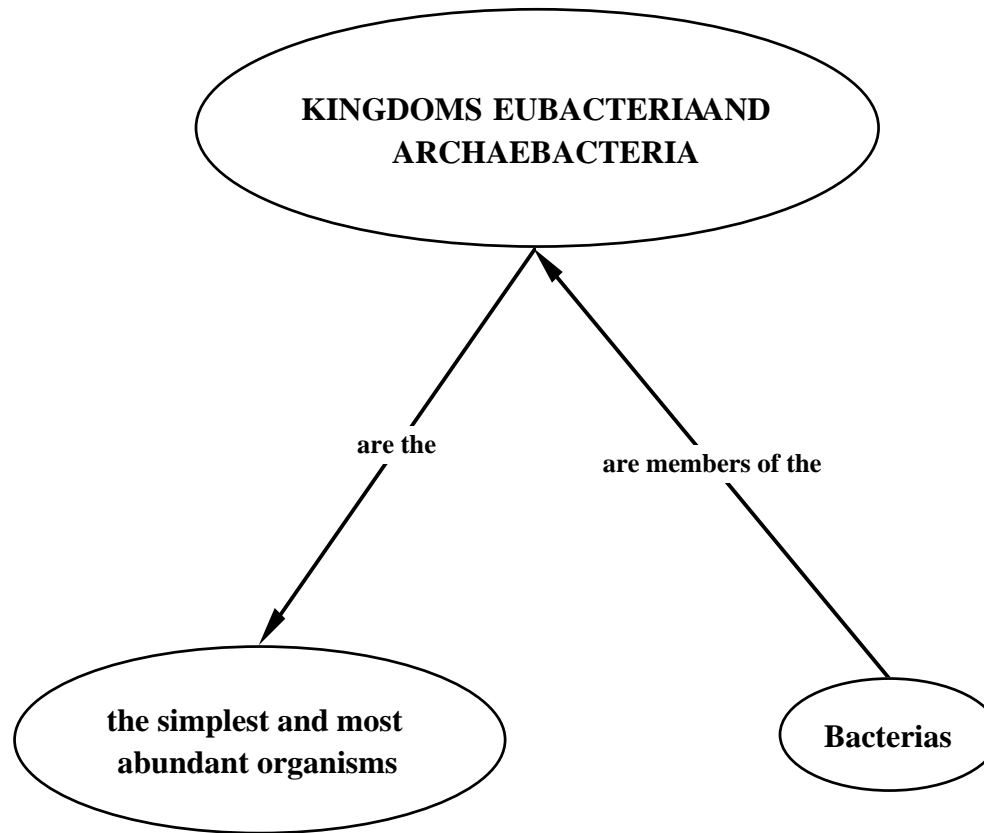


KINGDOM PLANTAE

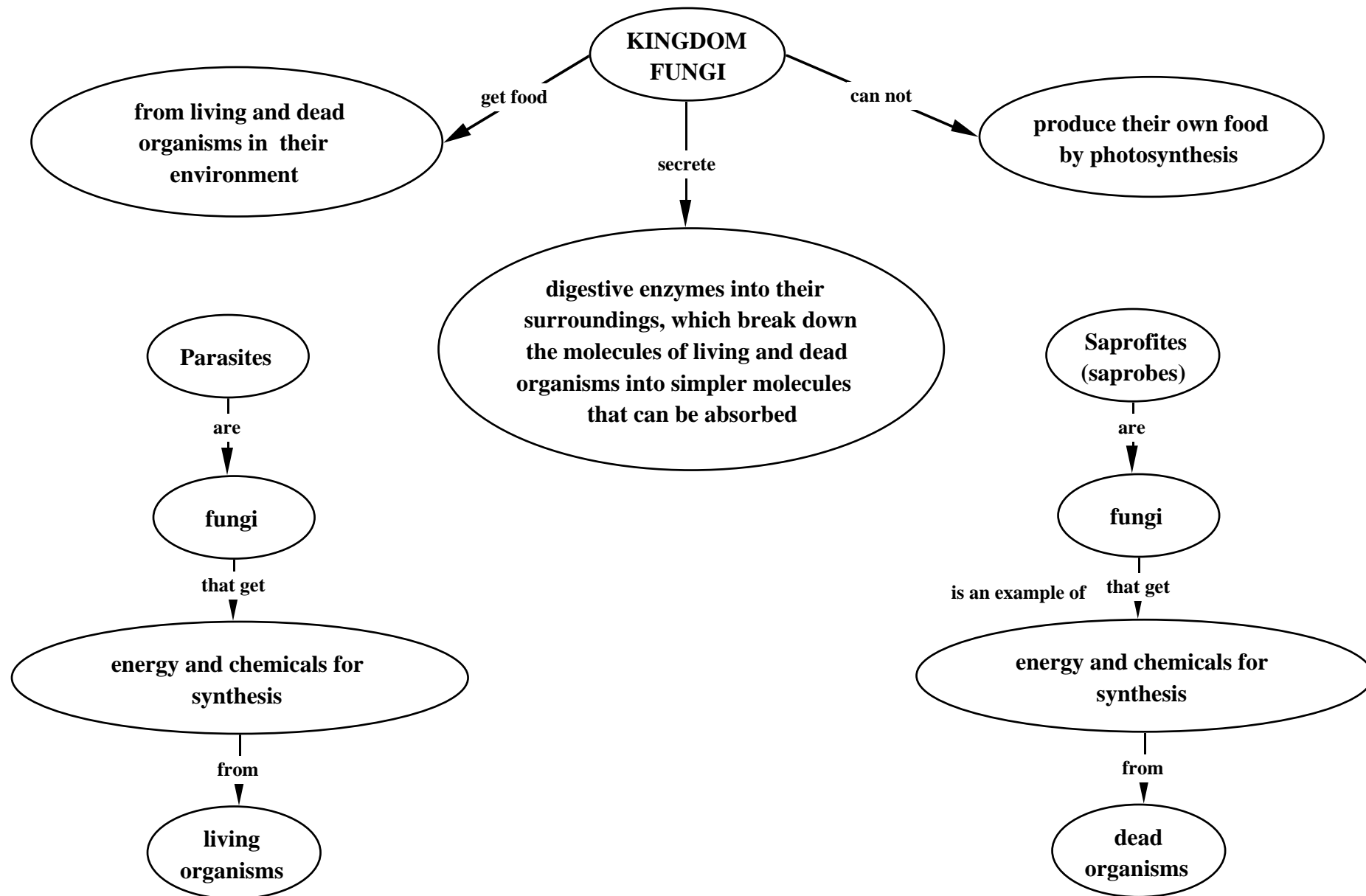
80 % flowering plants, 15% pines and their relatives, and 5% are simple plants, mosses and ferns



**KINGDOMS EUBACTERIA
AND ARCHAEBACTERIA**

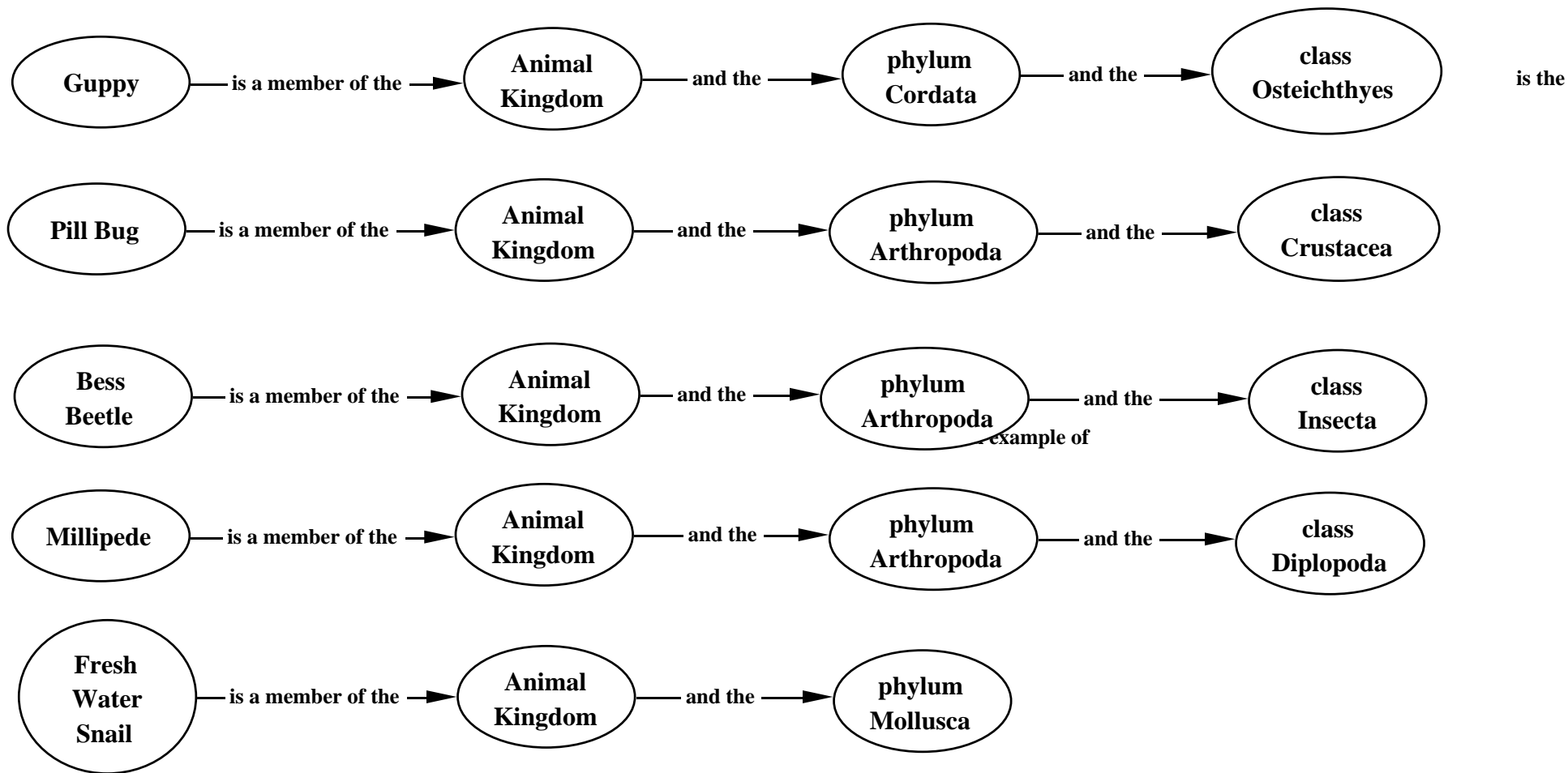


KINGDOM FUNGI

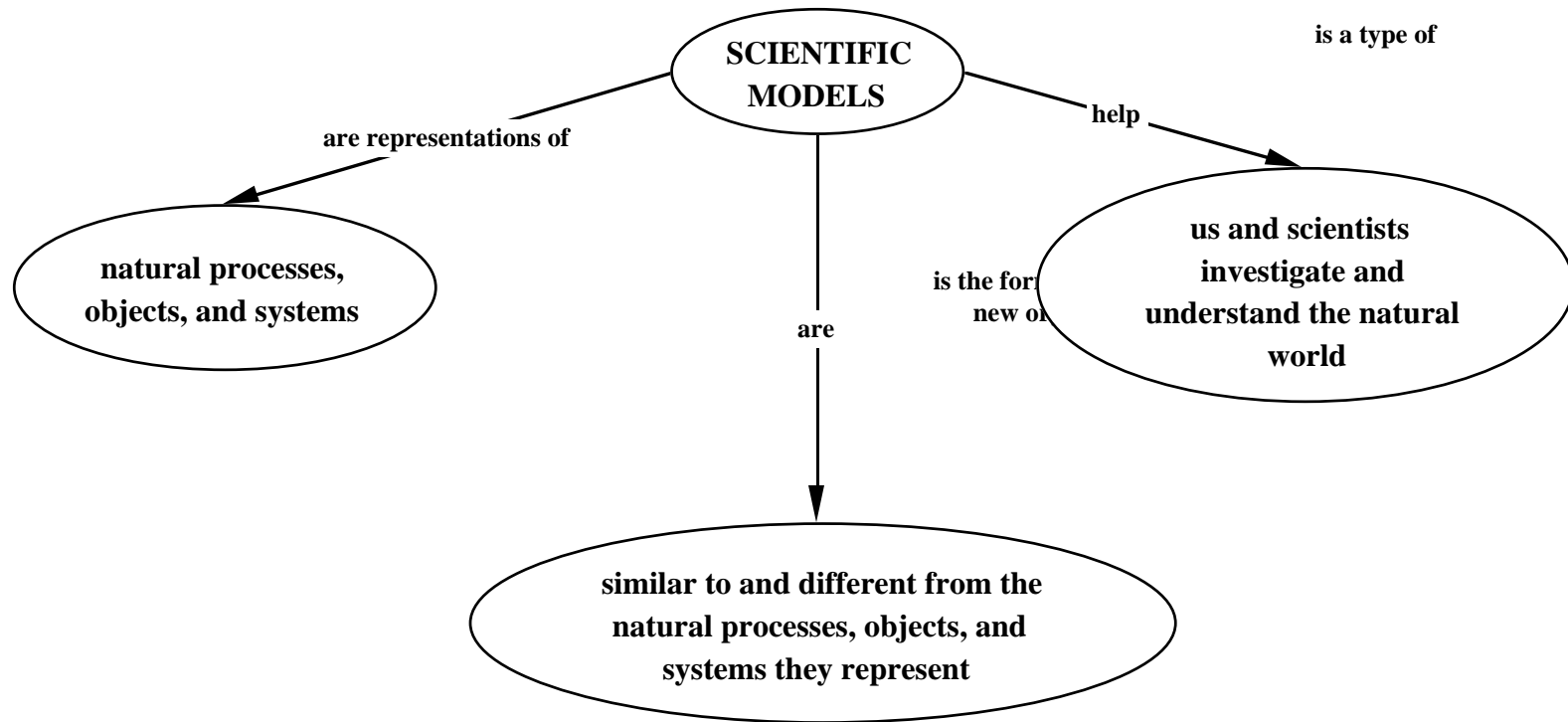


is

CLASSIFICATION EXAMPLE: ANIMALS



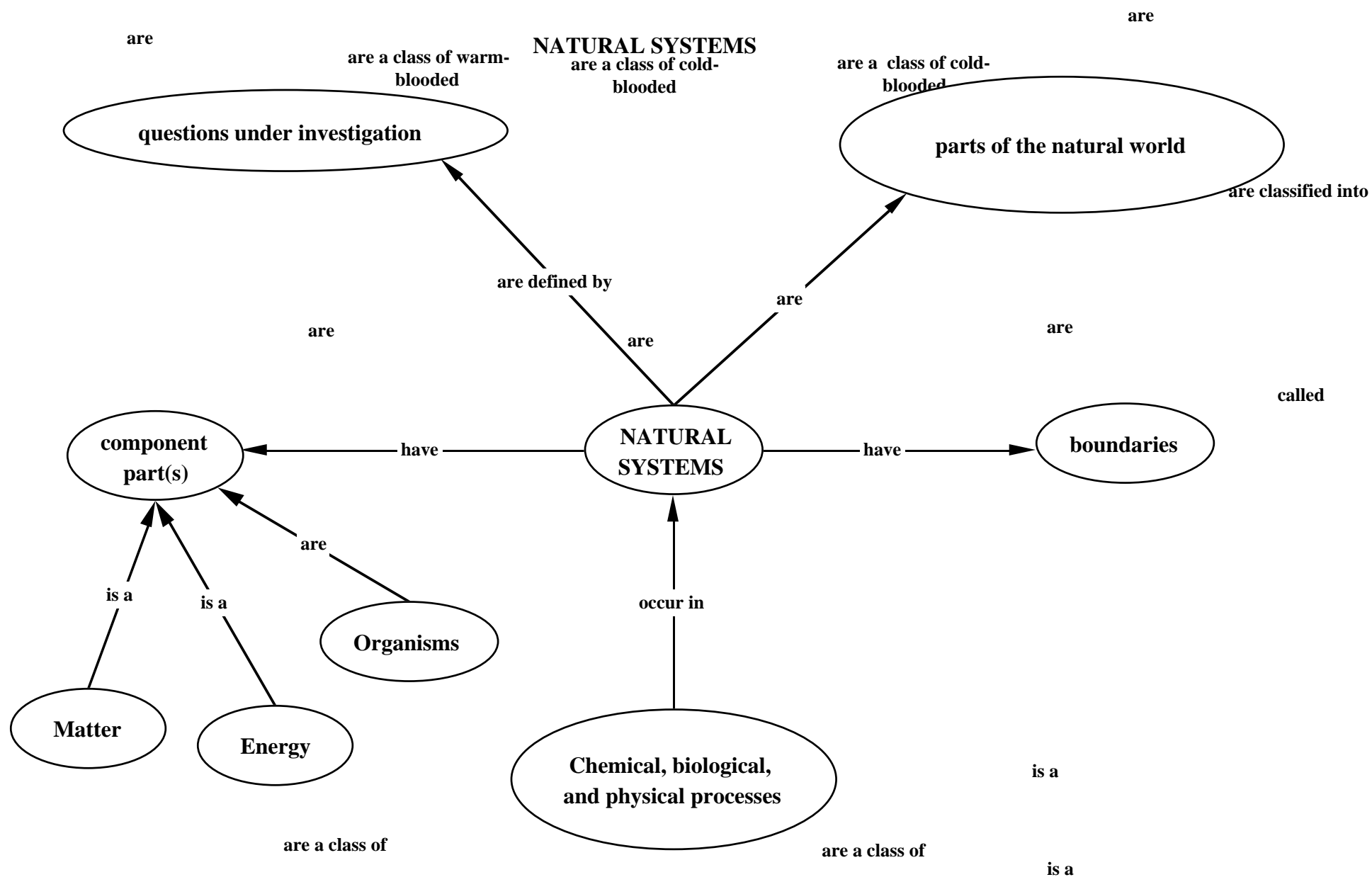
SCIENTIFIC MODELS



are a class of warm-blooded

are a class of cold-blooded

live in



when they

when they

ECOSYSTEMS, TERRARIUMS AND AQUARIUMS

live in

reprodu



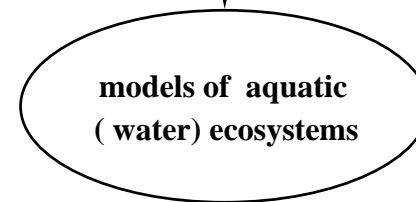
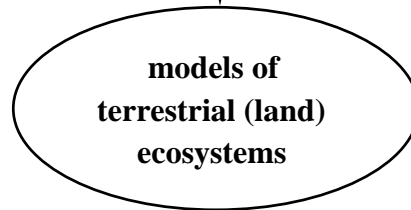
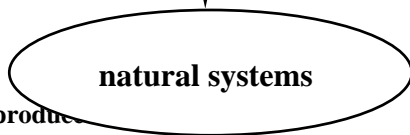
are

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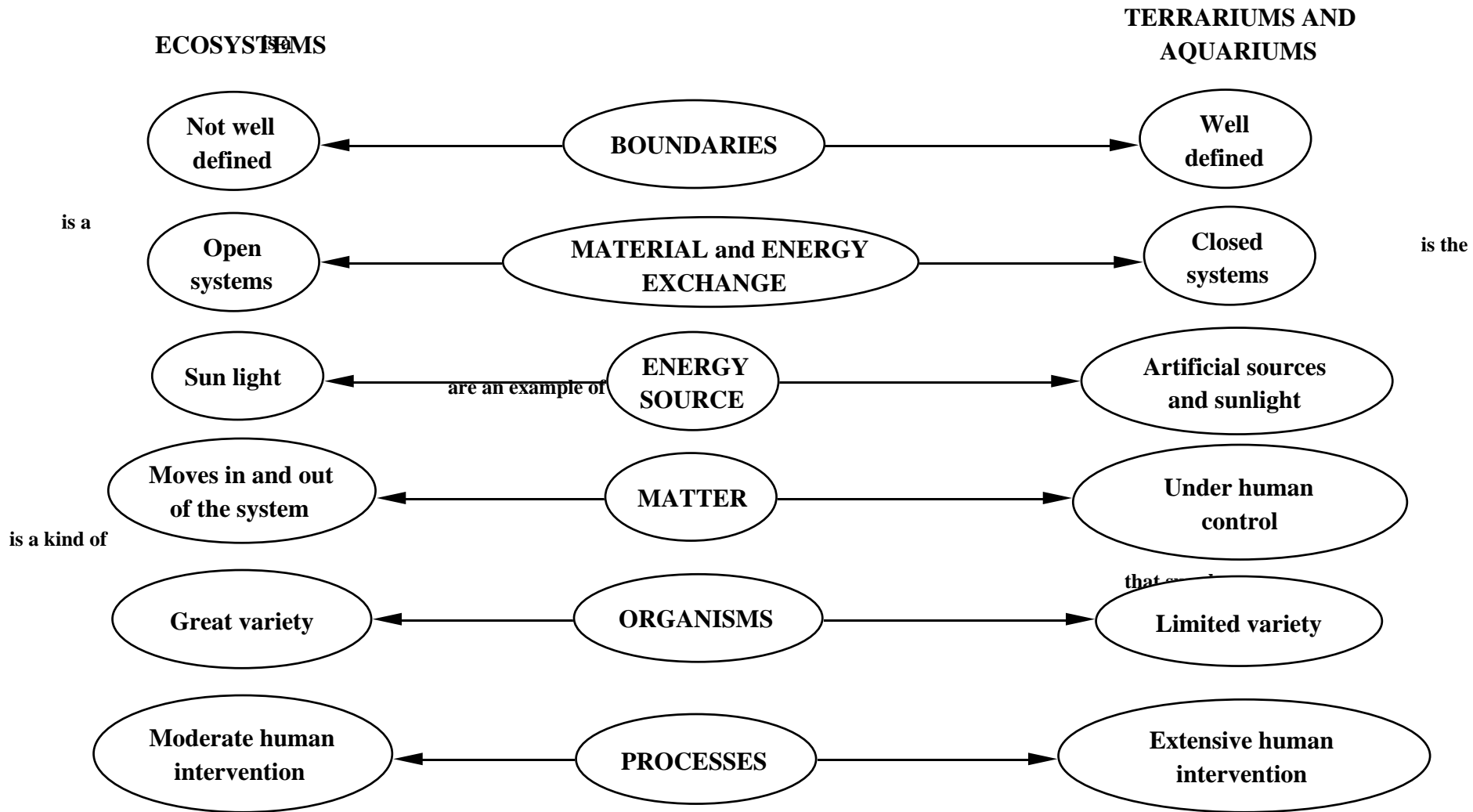
called

involves

are exampl

reproduce

ECOSYSTEMS, TERRARIUMS AND AQUARIUMS



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is

**is the formation of a
new organism**

excrete

excrete

when they

when they

live in

reprodu

are

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in

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involves

are exampl

reproduce

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