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ACTIVITY 20. Look at the following chemical elements and circle the most abundant ones in living things:

C (carbon)	Ca (calcium)	H (hydrogen)	Na (sodium)
O (oxygen)	Fe (iron)	N (nitrog	gen)

ACTIVITY 21. Match each biomolecule with its function. Ask your teacher for help:

WATER-	-Are reserve and insulating substances.
MINERAL SALT-	-Regulate chemical reactions and build skeletal structures.
GLUCIDS-	-Contain the inheritance information.
LIPIDS-	-Give energy to the organism.
PROTEINS-	-Transport other substances through the body.
NUCLEIC ACIDS-	-Build structures, transport substances, etc.

ACTIVITY 22. Define cell.

ACTIVITY 23. Complete.

All cells have____

ACTIVITY 24. Prokaryotic, eukaryotic or both types?

- They belong to Protoctist, Fungi, Plant and Animal Kingdom:
- They form unicellular and multicellular organisms:
- They belong to Monera kingdom:
- They don't have a nucleus:
- They are much smaller than eukaryotic cells:
- Their genetic material is not separated from the cytoplasm:
- Cell membrane is made up of lipids and proteins:
- They only form unicellular organisms:

ACTIVITY 25. Which life function is it?

Through this function, organisms can find food, flee from their predators and respond to changes in heat, light, sound, and chemical or mechanical contact.

ACTIVITY 26. Put a cross in the right column.

	Prokaryotic cell	Eukaryotic cell	Animal cell	Plant cell
CELL MEMBRANE				
CHLOROPLAST				
NUCLEUS				
DNA				
MITOCHONDRIA				
RIBOSOMES				

ACTIVITY 27. Match:

Interaction	a. It involves all the processes to obtain ENERG and MATTER that living things need to stay alive.	
Reproduction	b. It allows living things to produce new individuals.	
Nutrition	c. It makes it possible for living things to react to and respond to changes in their environment.	

ACTIVITY 28. Match:

They haven't got nucleus.	
They have ribosomes, little organelles that make proteins.	EUKARYOTIC CELLS
Their genetic material is not separated from the cytoplasm.	PROKARYIOTIC CELLS
They have cellular wall, a rigid structure located outside.	PLANT CELLS
They have mitochondria, organelles which produce energy.	ANIMAL CELLS
They have a big vacuole that occupies the most part of the cytoplasm.	

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ACTIVITY 29. Answer these questions and justify your answer.

• Is there any multicellular organism made up of prokaryotic cells?

• What organelles are exclusive to plant cells?

ACTIVITY 30. Complete about nutrition.

combine inorganic matter (wate	er,and
CO ₂) with energy from the Sun (_) or from chemical reactions
(chemosynthesis) to produce their own organic c	ompounds. Plants,
and some bacteria are autotrophs.	

Heterotrophs take_____matter made by other living things. Animals, ______, protozoa and some bacteria are heterotrophs. According to the type of food they eat, the_____organisms are classified into:

- Herbivores: they eat____(e.g. cows)
- _____: they eat meat (e.g. lions)
- _____: they eat meat and plants (e.g. humans)
- Saprophytes: they eat_____(e.g. fungi)

ACTIVITY 31. Complete the table:

	Kingdom	Nutrition	Tissues	Type of cell
Algae				
Butterfly				
Cypress				
Fungi				
Starfish				
Moss				

- Which organisms are autotrophs?

- Which organisms have prokaryotic cells?

- Which organisms are multicellular?

- Which organisms do belong to animal kingdom?

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ACTIVITY 32. Look at the picture and fill in the gaps.

