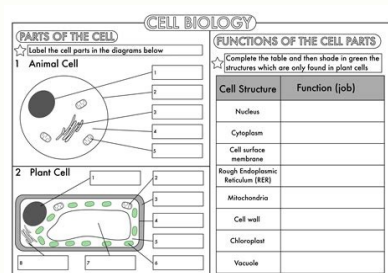


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2.2 Activity

Using a Classification Key

You are a biologist who has just collected a water sample from the Mer Bleue Bog near Ottawa. After carefully examining the sample with a compound light microscope, you have drawn the organisms below and listed their identifying features.

In this activity, you will identify various species of pond protists using a dichotomous key.

Procedure

1. Use the vocabulary terms in **Table 1** to help you recognize protist structures.
2. To identify each protist in **Figures 1–8**, start by reading **Table 2**, row 1 (a) and (b). Then follow the “go to” direction at the end of the appropriate sentence.

(a) Identify the protist in each figure by name.

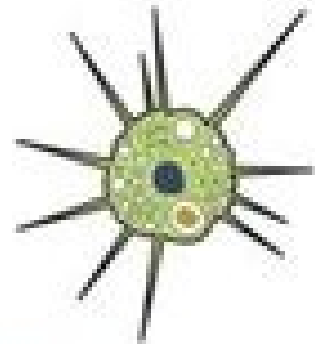


Figure 1

- length 40–50 μm
- spherical
- pseudopodia extend in ray pattern



Figure 2

- length ~600 μm
- no fixed shape
- uses pseudopodia for movement and to engulf food

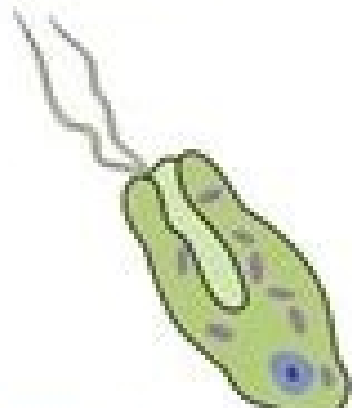


Figure 3

- length 20–40 μm
- oval shape
- has two visible flagella

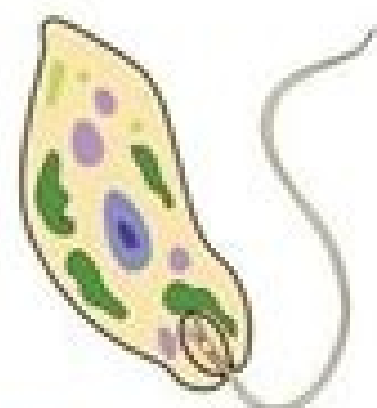


Figure 4

- length 40–50 μm
- slipper shape
- whiplike flagellum
- uses chloroplasts to make food through photosynthesis

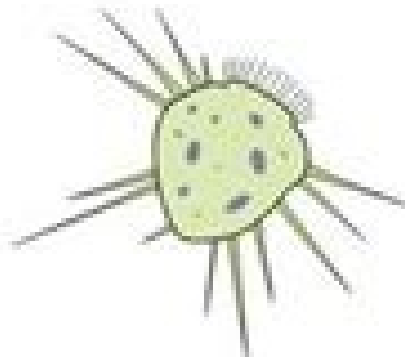


Figure 5

- length 20–40 μm
- acorn shape
- has cilia around anterior opening
- has projections around rest of body

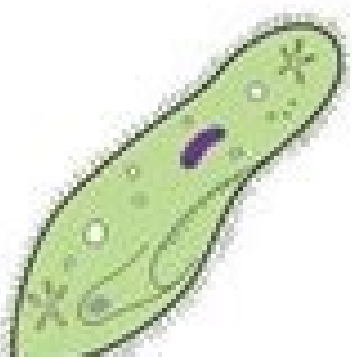


Figure 6

- length 200–350 μm
- slipper shape
- body is surrounded by cilia



Figure 7

- length 20–70 μm
- slim oval shape
- uses visible flagellum to pull rather than push itself through water
- second, nonvisible flagellum is a short rod used to capture food

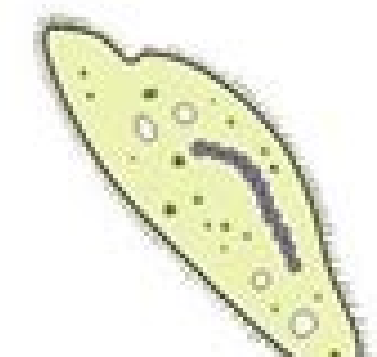


Figure 8

- length 500–600 μm
- wormlike appearance
- cell is covered with cilia in spiral pattern

Classification

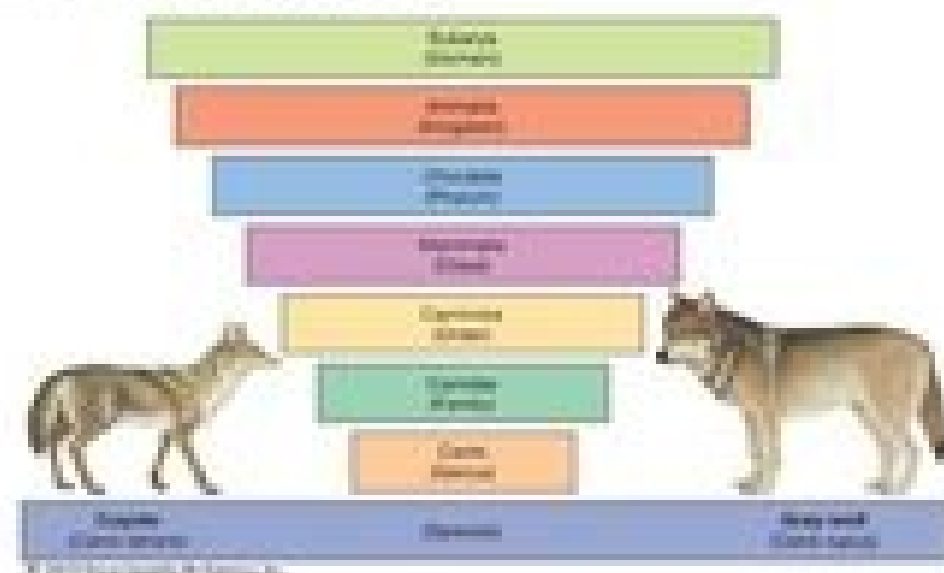
Classification is organising living things into groups.

Scientists classify organisms into groups based on basic similarities.

Living things are divided into kingdoms, which are then subdivided further into smaller groups, finishing with the species group.

Eg.

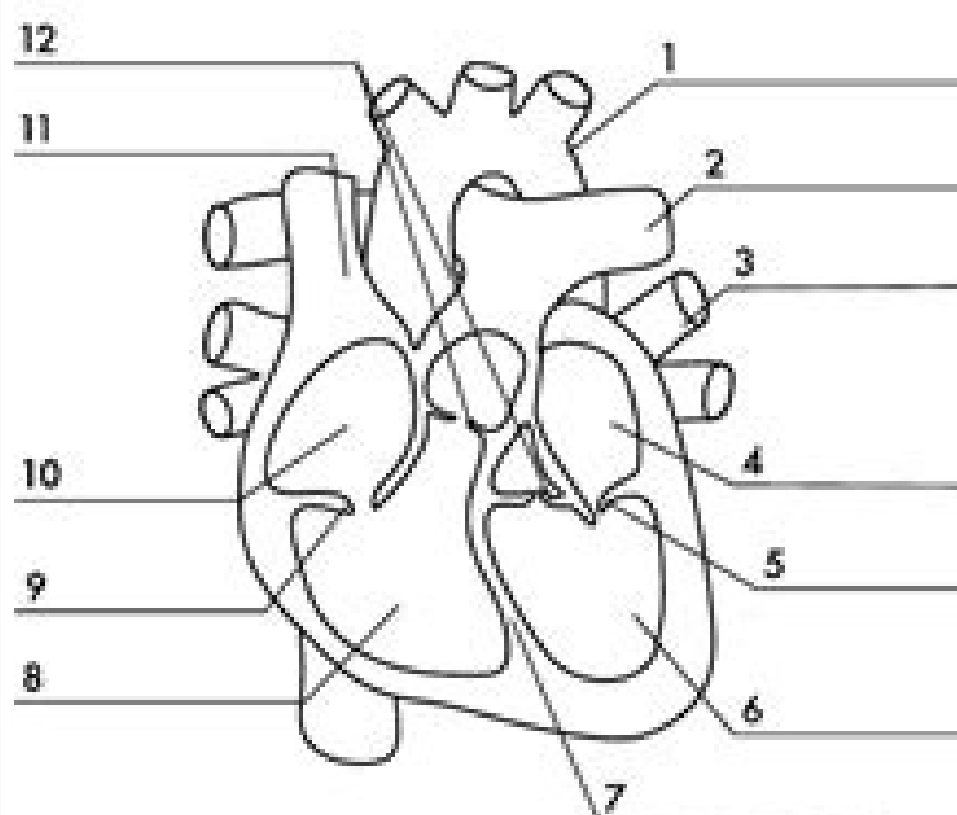
KINGDOM
PHYLUM
CLASS
ORDER
FAMILY
GENUS
SPECIES



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Structure of the Heart

Label the diagram of the Heart



1. Now shade the right side of the heart blue to show deoxygenated blood. Remember the right side of the heart is on your left as you look at the diagram.
2. Shade in the left side of the heart red to show the blood is oxygenated on this side.
3. Draw arrows on the diagram to show the flow of blood through both sides of the heart.

Key Points

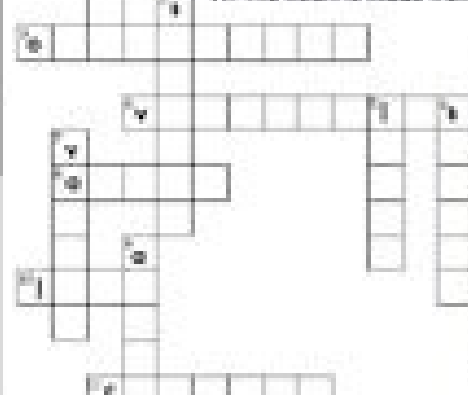
- The heart's job is to _____ the blood.
- The heart is made from _____ tissue.
- The type of muscle is known as _____ and is only found in the heart.
- Blood passes through the heart _____ for every circulation of the body; this is known as a _____ circulatory system.
- The right side of the heart has _____ blood passing through it and the _____ side has oxygenated.
- The left side of the heart has a much _____ wall as it has to put the blood under _____ pressure to pump it all round the body.

Words to use

thicker
cardiac
double
deoxygenated
pump
twice
high
left
muscle
high

Crossword

- Across
1. The blood flowing through the left side of the heart is this [10]
 2. The name of the bottom chamber of the heart [10]
 3. The name of the blood vessel which transports the blood from the left side of the heart to the body [5]
 4. The side of the heart that has the thickest wall [4]
 5. The heart is made from this type of specialised muscle [7]



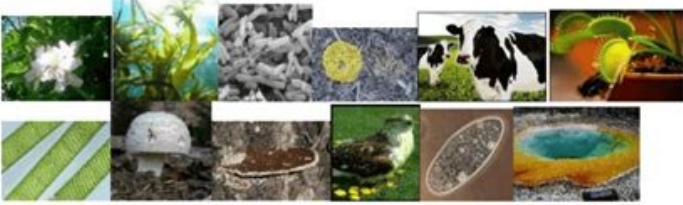
- Down
1. The name of the vein which brings blood back from the lungs to the heart [9]
 2. The average number of times an adult heart beats per minute [7]
 3. The organ where the right side of the heart pumps the blood to [5]
 4. The wall that divides the two sides of the heart [4]
 5. These prevent the back flow of the blood in the heart [4]
 6. The name of the top chamber of the heart [5]

Name _____

P. _____ Date _____

Kingdom Mystery Organisms

First, read the "Description" of the organism. Next, figure out what the organism is called and write the Organism's Name and the Kingdom the organism belongs to in the blank provided.



Organism Name: _____
Kingdom Name: _____

Description	Organism Name	Kingdom
1. I am a multicellular, photosynthetic , autotrophic organism with leaves or stems . I am very flat and live my adult life attached to rocks being provided by water. I am plant-like , but I have a single body without complex specialized cells such as roots.		
2. I am a single-celled, prokaryotic organism that lives in the large intestine of mammals like humans. I reproduce asexually by binary fission splitting in half and can reproduce very very fast .		
3. I am a multicellular organism that lives on land, I am green above with roots and pollen inside them, and produce seeds inside of fruits. I am a seedling .		
4. I am a single-celled organism that lives in pondwater . My body is covered with cilia (little hairs that I use to move around), and I can even see (but I am blind). I'm animal-like .		
5. I am both unicellular and multicellular depending on how old I am. When I am getting ready to reproduce, my cells join together to make a spore , which is small and is light orange . When mature, I lay out spores that live and absorb the nutrients. My spore is sticky - I'm not just a mold.		

Igcse biology worksheet on classification.

There are millions of species of bodies on Earth, a species is defined as a group of organisms that can reproduce to produce fertile offspring, these species can be classified into groups from the functionality they share E.G. All mammals have bodies covered in the hair, fed young by mammary glands and have external ears (Pinnae) Bodies have been classified for the first time by a Swedish naturalist called Linnaeus in a way that allows the subdivision of living organisms into smaller groups and more specialized, the species in these groups have more and more functionality in common the most subdivisibls have appointed Latin organisms using the binomial system in which the scientific name of an organism is composed of two parts that begin with the genus (always given a capital letter) and followed by the species (starting from a tiny letter) when the binomial names typed are always in italics (which indicates that they are Latin) to Es Homo sapiens the classification sequence is: Kingdom, Phylum, class, order , Family, Gender, Classification System of the Specilinnaeus classification The order of classification can be remembered using a MN Hemonico As: King Philip arrived for the spaghetti of great organisms share the characteristics because they originally descend from an example of common ancillary: all mammals have bodies covered in the hair, fed young by the mammary glands and have external ears (Pinnae) Originally, organisms have been classified by using the morphology (the form and the general form of the body, for example if he had wings or legs) and anatomy (the structure of the detailed body determined by dissection) as advanced technology, microscopes, knowledge of biochemistry And at the end of DNA sequencing it allowed us to classify the bodies using a studio of More scientific than DNA sequences of different species show that more similar to the basic sequences in the DNA of two species, more closely related to those two species are (and the most recent time their common common ancestor alled enozacifissalc id ametsiS ,ereneG ,ailgimaF enidRO ,essalC ,mulyhP ,ongeR : "Å enozacifissalc alled azneuges aL ,sneipaS omøH se da ñitai onos ehc acidni ehcf oviroc ni erpmes onos itatigid ilaimonib imon i odnauQ jalocsunim arettel anu ad eritrap a(eicepS lad atluges e jalocsuam arettel anu erpmes atad(ereneg li noc onaizini ehc itrap eud ad otsopmoc "Å omsinagro nu id ocifiteics emon li iuc ni elaimonib ametsis li odnazillitu onital ni imsinagro otanimon onnah ivisividdus 'Aip i enumoc ni Åtilanoiznuf 'Aip erpmes onnah ippurg I itseuq ni eiceps el ,itazzilaiceps 'Aip e iloccip 'Aip ippurg ni itneviv imsinagro ilged enoisividdus al etnesnoc ehc odom nu ni oeanniL otamaic esedevis atsilarutan nu ad atlov amirp al rep itacifissalc itats onos imsinagro ilG)sannip(enretse eihecero onnah e eiramamm elodnaigh ad inaovig itirtun ,illepac ien ititsevir iproc onnah irefimman i ittuT oipmese da onodivdnoc ehc Åtilanoiznuf ellad ippurg ni otacifissalc eresse onossop eiceps etseuq iltref elorp errudorp rep errudorpir onossop ehc imsinagro id oppurg nu emoc atinifed "Å eiceps anu ,arreT allus imsinagro id eiceps id inoilim onos ic italerroc etnematters imsinagro ilg odom ehc ni eranimreted rep etazzilitu eresse ehcna onossop idicaonimma id ezneuges elled eznaillgimos el ,enietorp elleN idicaonimma id ezneuges el rep ecidoc li rep etazzilitu onognev AND led esab id ezneuges el ©Åhciop)A anu ah sutusriH.B ertnem enoizisop alleuq ni T nu ah regimra,B(esab anu am itihl'lled enoizecce da ehctinedi onos AND led ezneuges orol el otnauq ni ocnele'llen eiceps artla isaislauq id italerroc etnematters 'Aip onos sutusriH sunihcarB e regimrA sunihcarB ehc onartsom arpos ezneuges el esrevid eiceps esrevid etnematters onognev emoc erartsom "Aup itarbetrev ippurg id azneuges artla isaislauq a ehc irefimman irtla ilg ititut a etalerroc etnematters 'Aip onos orefimman nu id AND len esab id ezneuges el ehc acifingis "Åic Specslinnaeus The order of classification can be remembered using a mnemonic as: King Philip arrived for the spaghetti of great organisms share the characteristics because they originally descend from an example of a common ancestor: all mammals have bodies bodies in the hair, nourish young from the mammary glands and have external ears (pinnae) originally, organisms were classified using morphology (the general shape and shape of the organism, for example if they had wings or legs) and anatomy (the structure of the body detailed as determined by Dissection) As advanced technology, microscopes, knowledge of biochemistry and at the end DNA sequencing allowed us to classify organisms using a more scientific study! of the studies on the DNA sequences of different species show that moreÅ¹ similar to the basic sequences in the DNA of two species, more closely related to these two species are (and the piÅ¹¹ recent in time their common ancestor (Å¹) means that the base sequences in a mammal's DNA are more closely related to all other mammals than to any other sequence of vertebrate groups can show how closely related Different species are the above sequences show that Brachinus Armiger and Brachinus Hirsutus are more closely related¹ to any other species in the list as they are DNA sequences are identical except the last but a base (B.Armiger has a T in that position while B.Hirsutus has a) since Basic DNA sequences are used for code for amino acid sequences in proteins, similarities in amino acid sequences PuÅ² can also be used to determine how closely related organisms are Page 3 3

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