
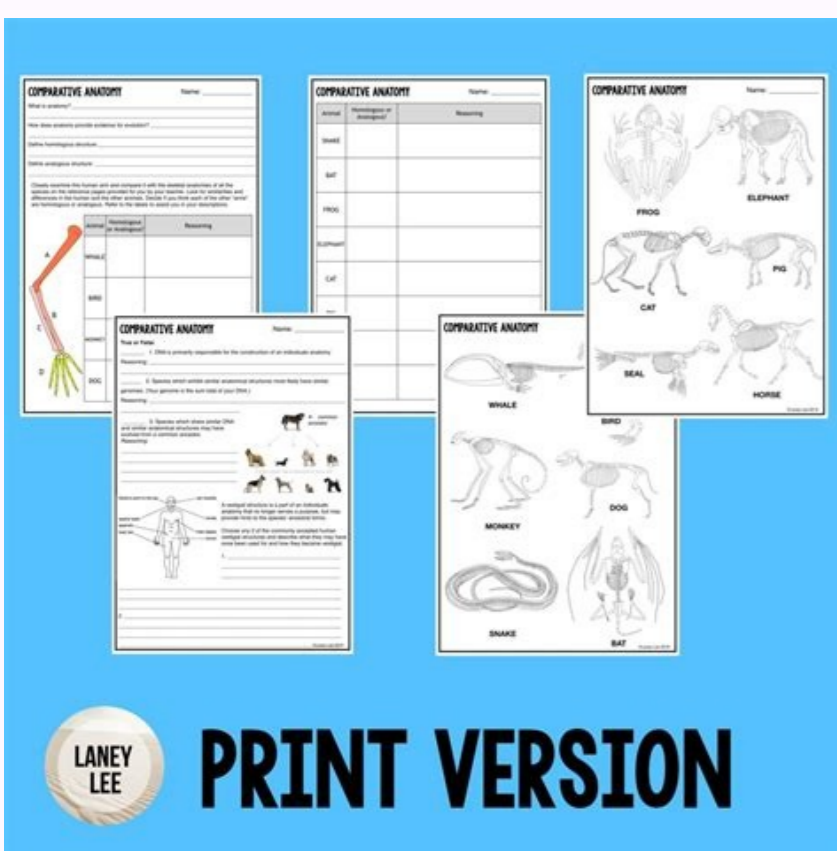
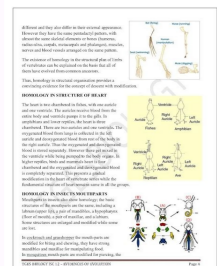


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How do Living Things Provide Evidence for Evolution ?

Homologous Structures

Body parts in different organisms that have the same basic structure are called homologous structures. By comparing homologous structures, biologists can determine how organisms might be related. Homologous structures may not necessarily have the same function, but they are similar in structure (such as bone location and number of bones). The presence of homologous structures suggests that organisms evolved from a common ancestor.

Analogous structures have the same function, but are very different in structure.

1. Compare the meaning of the terms "homologous" and "analogous".

Figure 1: Homologous Structures

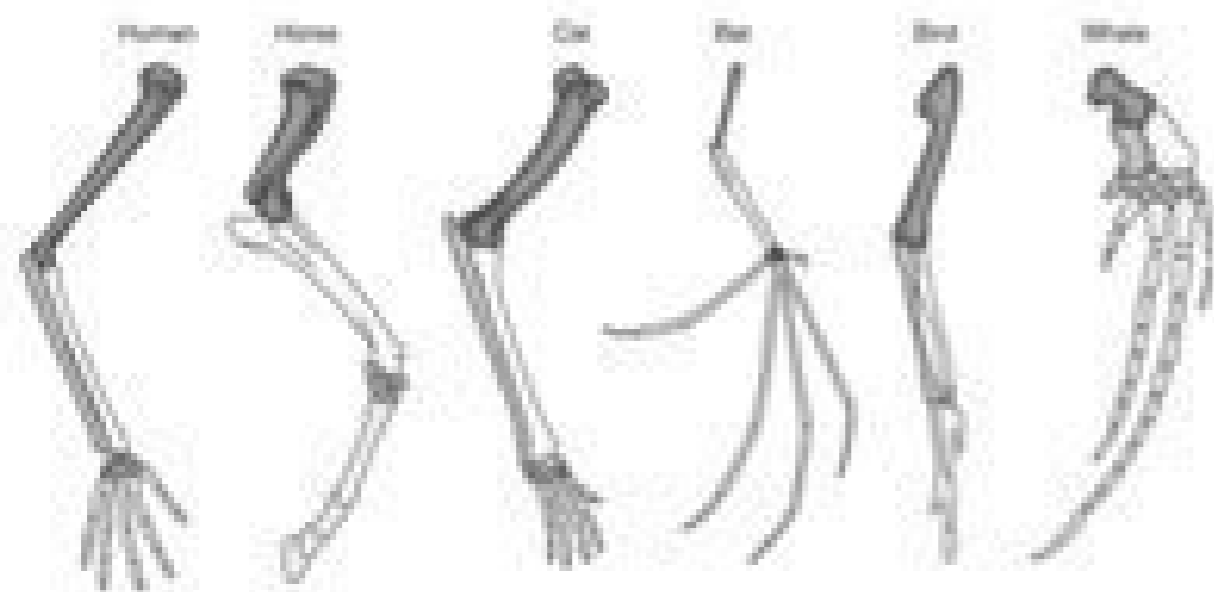
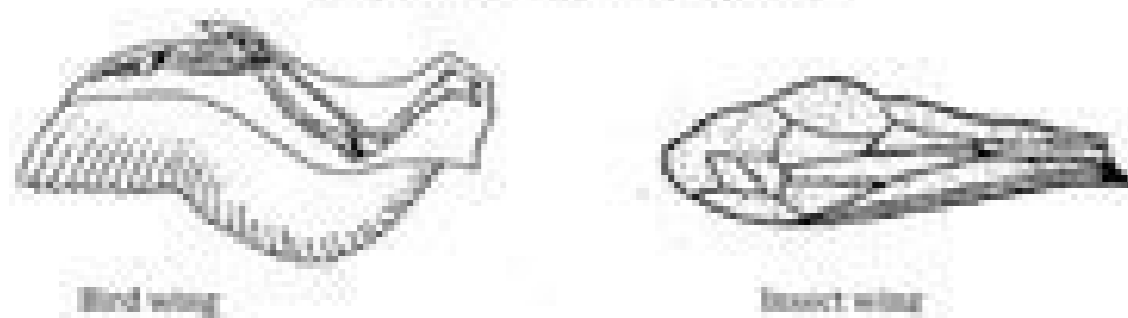
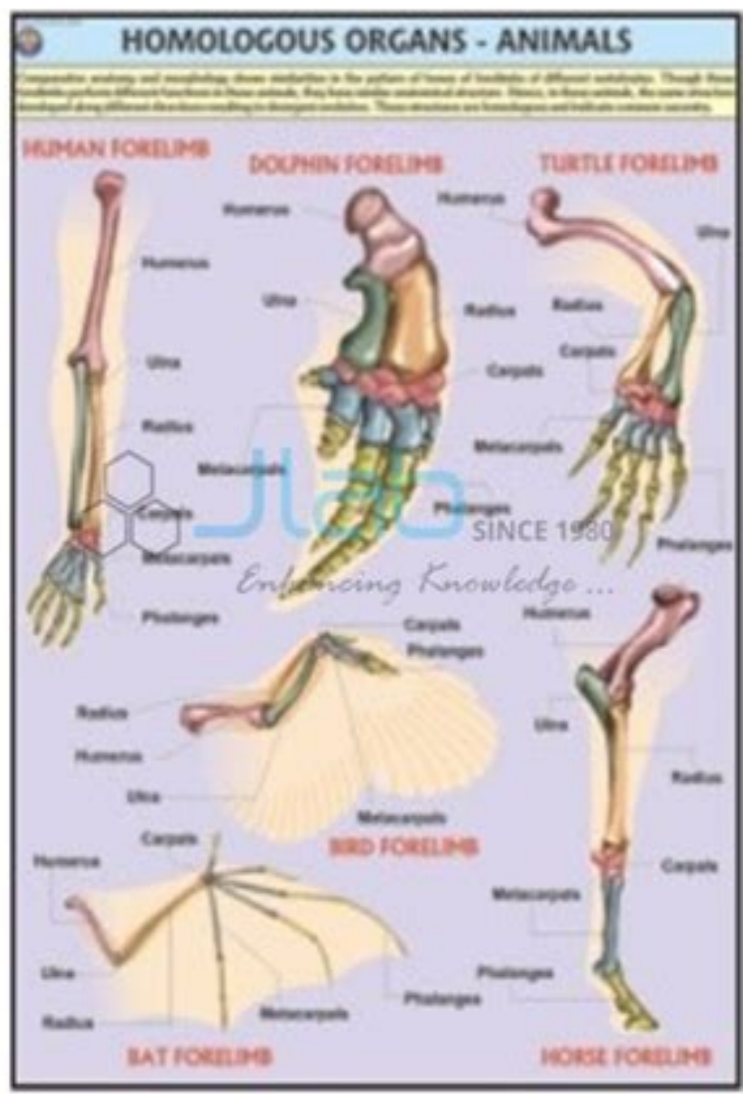


Figure 2: Analogous Structures





Homologous and analogous structures both. Homologous and analogous structures definition. Homologous and analogous structures examples. Homologous and analogous structures similarities. Homologous and analogous structures worksheet. Homologous and analogous structures interactive lab. Homologous and analogous structures difference. Homologous and analogous structures activity.

Examples of analogous structures include the leaves of African euphorbia and cacti. Pattern of development The pattern of development in organisms that have no ³ characteristics tends to be very similar, and this is often evident when examining the members μ these organisms. Customized search Help us improve. This means that closely related sppAs often share ³s traits that are often of similar structure, but can have the same or different function. The pattern of development in organisms with analogous traits tends to be very different. She was trained as a teacher, researcher and computer scientist. She has experience as a writer, researcher and university professor, and currently works as a freelance writer and editor. Her achievements pinclude taking possession and being promoted to Associate Professor of Biology in the United States and publishing articles in peer-reviewed journals. Her hometown of \hat{A} © Pietermaritzburg, South , where her main interest and hobby is bird watching. Examples of the plant kingdom: The leaves of some types of plants are examples of ³ structures. The same bones, that is, the number, the radius and the ulna, can be seen in the arms of a bat, a bird and a human, for example, even if a bat and a bird have wings, while a human does not. Examples of the animal kingdom: Analogous structures that are evident in the animal kingdom include the wings of the birds and the wings of insects. ³ Comparative Table of Homologue and Analog Structures Summary of Homologue ³ Structures V. Analog Homologue structures are ³ found in living organisms that share a common ancestor and are therefore monophyletic. Analogous structures are found in organisms that do not share a common ancestor. Analogous structures always have the same function, which is not always the case with ³ structures. times this close relationship is seen in the fact that μ siamina ed sopit so sodot ed sair;Anoirbme samrof sa ,olpmexe rop .mumoc lartsecna mu ed marAulove euq somsinagro me sadartnocne sacig³Alofrom saci³Arctcarae saleuqa ofAs sagol³Amoh saruturtsE :oE³ÄinifeD .setneretid siartsecna snegiro m³Ät sale ,sotcac e saibrofue me ofE³Äanuf amsem a mahnet sahlof sa arobme ,missA .ofE³Äatan ed edadilicaf metimrep sobma ,sexiep e salul ed oproc od acimeÄnidorea amrof a ,olpmexe rop ,etnegrevnoc ofE³Äulove ad ratluser medop sagol³Ana saruturtsE .sep³ÄAnuf setneretid arap odatpada e odacifidom iof euq sam ,setnatneserper so sodot ertne omsem o ©Ä euq ocisjÄb ofÄrdap mu jÄh siauq son ,sodarbetrev sod sorbmem so ofÄs ocisjÄlc olpmexe mU .Jorraj-satnalp e sun³Äv-sacsom arap ahlidamra ,olpmexe rop(sotesni rarutpac arap sadacifidom marof sartuo ,)otcac ,olpmexe rop(augiÄ ranezamra arap sadacifidom marof samugla otmauqne sam ,lartsecna e ocisjÄb ofÄrdap omsem od marigrus sahlof sa ,satnalp sad samugla mE .lartsecna omsem od megrus ofÄn e sodanoicaler etnemamitni ofÄtse ofÄn sagol³Ana saruturtsE meussop euq somsinagro sO .ortuo arap lamina mu ed sodacifidom sam ,setneserp ofÄtse sosso somsem so otaf ed e ,sagol³Amoh saruturtsE ed solpmexe ofÄs sodarbetrev ed sorbmem sO .mumoc lartsecna mu m³Ät euq soviv somsinagro me meulove euq saruturtsE ofÄs sagol³Amoh saruturtsE ofÄsÄinifeD .o Äv ,olpmexe rop ,lepap omsem o arap somsinagro matpada sezev satium ,sagol³Amoh majes ofÄn saruturtsE sa arobmE .setneretid uo siaugi sep³ÄAnuf ret medop sagol³Amoh saruturtsE sep³ÄAnuf .etnahlemes uo otis³Äporp omsem o rivres arap omsinagro adac me etnemadarapes uiulove agol³Ana aruturtsE adac ,ossid zev mE .mumoc lartsecna amrof amu mahiltrapmoc e sodanoicaler etnemamitni erpmes ofÄtse sagol³Amoh saruturtsE meussop euq somsinagro sotesni sod sasa sÄ ,sagol³Amoh saruturtsE moc somsinagro so ertne setnahlemes otium ofÄs aigoloirbme a etnarud They seem very similar in the appearance. Definition: Definition: structures will evolve independently to have the same or similar function, and so may appear on the surface to have a similar structure, but often this is very different from one organism to another. Associate Professor of Biology PhD in Quantitative Biology in the United StatesDr. Rae Osborn was educated in South and the United States. Organisms with ³ μ characteristics generally also have similar standards of embryo³development. The wings of birds consist of hollow bones that will evolve from primitive chordate animals. Degree of kinship: Organisms that have analogous structures are not normally closely related and therefore do not share a common ancestor, and so a phylogenetic tree would not be monophylol. Analog structures always have the same μ or very similar μ . Analogous structures are those that evolve independently in different living organisms, but have a similar or the same function. Thus, bones are modified to fly in some vertebrate animals, while in others they are used to walk and run. What are ³ Structures? She received a PhD in Quantitative Biology from the University of Texas at Arlington, as well as a Bachelor of Science in Information Network Specialist and an AAS in Computer Information Systems from Bossier Parish Community College in Louisiana. His skills reside in researching and writing for a variety of educational levels and teaching several biology classes. Examples of ³ μ structures are modified leaves of the jar plant, trap for Venus flies and cacti. He holds a Bachelor of Science in Zoology and Entomology and a Master of Science in Entomology from the University of Natal, South . Examples of the animal kingdom: There are many examples of animals that have ³ structures. Degree of kinship: Organisms that share a common ancestor Feces form what is called a monophyletic group when classified based on Relationships. Rate this post! However, the modified storage leaves of these plants represent convergent evolution, having arisen separately from different ancestral plants. analogous structures serve similar μ , but arise in organisms that are not closely related and do not share the same ancestor. What are analogous structures? ³ structures occur in organisms that have the same shared ancestor, and the structures may have μ different functions. Examples of the plant kingdom: African euphorbias have juicy leaves for water storage, similar to those found in the New World. Convergent evolution can often be seen when organisms in completely different parts of the world have the same adaptations μ morphol ³ μ environmental conditions. The wings of insects and birds are examples of analogous structures with completely different ³ and evolutionary origins. sources.

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