Presentation on theme: "Chapter 35 Characteristics of mammals What is a Mammal?"— Presentation transcript:

[1](https://slideplayer.com/slide/6398040/22/images/1/Chapter+35+Characteristics+of+mammals+What+is+a+Mammal.jpg) **Chapter 35 Characteristics of mammals What is a Mammal?**  
Mouth parts - Brain partsOrigins of MammalsDiversity of MammalsAssignments/ Test alternatives

[2](https://slideplayer.com/slide/6398040/22/images/2/Characteristics+of+Mammals.jpg) **Characteristics of Mammals**  
1. Mammals have hair2. Mammals cool off3. Mammals have a diaphragm4. Adaptations for getting and eating food5. Mammals nurse their young6. Mammals are very intelligent

[3](https://slideplayer.com/slide/6398040/22/images/3/1.+Mammals+have+HAIR+Thought+to+have+evolved+from+scales.jpg) **1. Mammals have HAIR Thought to have evolved from scales**  
Provide insulationProvide waterproofingOther functions:- predators Protections- nails / claws-Camouflage-Mating behaviors

[4](https://slideplayer.com/slide/6398040/22/images/4/2.+How+mammals+cool+off+Adaptations+that+aid+in+cooling+panting.jpg) **2. How mammals cool off Adaptations that aid in cooling panting**  
sweat glandsbehaviors

[5](https://slideplayer.com/slide/6398040/22/images/5/3.+Mammals+have+a+diaphragm.jpg) **3. Mammals have a diaphragm**  
Require a high level of energy for heating/cooling, locomotion and brain activityDiaphragm ( sheet of muscle under lungs separating visceral cavity and pericardial cavitybreathing volumes controls animal activity

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[6](https://slideplayer.com/slide/6398040/22/images/6/4.+Adaptations+for+eating.jpg" \o "4. Adaptations for eating" \t "_blank) **4. Adaptations for eating**  
Teeth type to match foodincisors ( cutting)molars ( crushing / grinding)canine ( tearing / ripping)Cud chewing ( re-chewing food)

[7](https://slideplayer.com/slide/6398040/22/images/7/5.+Mammals+nurse+their+young.jpg" \o "5. Mammals nurse their young" \t "_blank) **5. Mammals nurse their young**  
Guard their youngfeed their young (Mammary Glands)Fewer offspring required

[8](https://slideplayer.com/slide/6398040/22/images/8/6.+Mammals+are+intelligent.jpg" \o "6. Mammals are intelligent" \t "_blank) **6. Mammals are intelligent**  
Highly complex nervous systemWell develop brainlarger cerebrum ( intelligence)larger cerebellum ( better muscle coordination )larger brain mass ( more of everything)

[9](https://slideplayer.com/slide/6398040/22/images/9/Mammal+Brain+%3D+multiple+intelligence.jpg" \o "Mammal Brain = multiple intelligence" \t "_blank) **Mammal Brain =22276-300 multiple intelligence**  
1. intelligence of verbal language2. intelligence of music,3. intelligence of logic mathematics4. intelligence relating to space5. intelligence of the bodily- kinetic6. intelligences of the personal mind7.intelligences of personal surroundings.

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[10](https://slideplayer.com/slide/6398040/22/images/10/Brain+parts+Cerebrum+Thalamus+Cerebellum+Medulla+Pituatary.jpg" \o "Brain parts Cerebrum Thalamus Cerebellum Medulla Pituatary" \t "_blank) Brain partsCerebrumThalamusCerebellumMedullaPituatary

[12](https://slideplayer.com/slide/6398040/22/images/12/Size+of+Brain+facts%3A+Brain+weight+Body+weight+Brain+weight.jpg" \o "Size of Brain facts: Brain weight Body weight Brain weight" \t "_blank) **Size of Brain facts: Brain weight Body weight Brain weight**  
(gram) (as % of body weighManBottlenose dolphinDolphinAsian elephantKiller whaleCowSperm whaleFin whaleMouse ,

[13](https://slideplayer.com/slide/6398040/22/images/13/Brain+parts+Images+PET+scan+left%2Fright+brain+functions%3D48490.jpg" \o "Brain parts Images PET scan left/right brain functions=48490" \t "_blank) **Brain parts Images PET scan 48792 left/right brain functions=48490**  
Brain Tumors=48539gross picture showing electrobes=48495

[14](https://slideplayer.com/slide/6398040/22/images/14/Mouth+adaptations+Rat+%3D+Dog%3D+rabbit%3D.jpg" \o "Mouth adaptations Rat = Dog= rabbit=" \t "_blank) **Mouth adaptations Rat =22213-14 Dog=22229-31 rabbit=22215-18**  
cat=seal=22224tiger=22225leopard=22226bear=Dog=Horse=antelope=22234whale=babooon=22248chimpanzee=22256human=

[15](https://slideplayer.com/slide/6398040/22/images/15/Origin+of+Mammals+First+true+mammal+appeared+200+Million+years+ago+-+Therapsids..jpg" \o "Origin of Mammals First true mammal appeared 200 Million years ago - Therapsids." \t "_blank) Origin of MammalsFirst true mammal appeared 200 Million years ago - TherapsidsExtinction of dinosaur and change in climate opened up a new niche for mammalsThey became fast running grazers.

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[16](https://slideplayer.com/slide/6398040/22/images/16/Diversity+of+Mammala+Mammals+are+classified+by+their+method+of+reproducing.+egg+layers.+Pouched+mammals..jpg" \o "Diversity of Mammala Mammals are classified by their method of reproducing. egg layers. Pouched mammals." \t "_blank) Diversity of MammalaMammals are classified by their method of reproducingegg layersPouched mammalsplacenta mammals

[17](https://slideplayer.com/slide/6398040/22/images/17/Egg+layers+Duck+billed+Platapus+Ant+eaters.jpg" \o "Egg layers Duck billed Platapus Ant eaters" \t "_blank) Egg layersDuck billed PlatapusAnt eaters

[18](https://slideplayer.com/slide/6398040/22/images/18/Pouched+mammals+Embryo+crawl+out+of+uterus+and+move+into+a+pouch+where+they+attach+to+a+nipple+and+continue+to+develop..jpg" \o "Pouched mammals Embryo crawl out of uterus and move into a pouch where they attach to a nipple and continue to develop." \t "_blank) Pouched mammalsEmbryo crawl out of uterus and move into a pouch where they attach to a nipple and continue to develop

[19](https://slideplayer.com/slide/6398040/22/images/19/Opossum+feeding.jpg" \o "Opossum feeding" \t "_blank) Opossum feeding

[20](https://slideplayer.com/slide/6398040/22/images/20/Placenta+Mammals+Order+Insectivora+Order+Chiroptera+Order+Edentata.jpg" \o "Placenta Mammals Order Insectivora Order Chiroptera Order Edentata" \t "_blank) **Placenta Mammals Order Insectivora Order Chiroptera Order Edentata**  
Order LagomorphaOrder RodentiaOrder PrimateOrder CetaceaOrder CarnivoraOrder PinnipediaOrder ProboscideaOrder PerissadactylaOrder ArtiodactylaOrder Sirenia

[21](https://slideplayer.com/slide/6398040/22/images/21/Order+Insectivora+Small+mammals+that+feed+on+insects-.jpg" \o "Order Insectivora Small mammals that feed on insects-" \t "_blank) **Order Insectivora Small mammals that feed on insects-**  
Shrew is an example

[22](https://slideplayer.com/slide/6398040/22/images/22/Order+Chiroptera+Flying+mammals.jpg" \o "Order Chiroptera Flying mammals" \t "_blank) **Order Chiroptera Flying mammals**  
Have skin flaps between its legs and armsBats

[23](https://slideplayer.com/slide/6398040/22/images/23/Order+Edentata+Strong+arms+with+claws+for+digging.jpg" \o "Order Edentata Strong arms with claws for digging" \t "_blank) **Order Edentata Strong arms with claws for digging**  
Anteaters, Armadillo and tree sloths

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[24](https://slideplayer.com/slide/6398040/22/images/24/Order+Lagomorpha+Hopping+mammals+%28+bones+fused+in+hip+area.jpg" \o "Order Lagomorpha Hopping mammals ( bones fused in hip area" \t "_blank) **Order Lagomorpha Hopping mammals ( bones fused in hip area**  
Plant /grain eatersRabbits, Pikas

[25](https://slideplayer.com/slide/6398040/22/images/25/Order+Rodentia+Continuously+growing+razor+sharp+teeth+gnawing+animals.jpg" \o "Order Rodentia Continuously growing razor sharp teeth gnawing animals" \t "_blank) **Order Rodentia Continuously growing razor sharp teeth gnawing animals**  
rats, mice, beavers, porcupines and chipmunks

[26](https://slideplayer.com/slide/6398040/22/images/26/Order+Primate+Keen+intelligence+lemur+like+monkey+like+human+like.jpg" \o "Order Primate Keen intelligence lemur like monkey like human like" \t "_blank) Order PrimateKeen intelligencelemur likemonkey likehuman like

[27](https://slideplayer.com/slide/6398040/22/images/27/Order+Cetacea+Have+fins+for+limbs+blowhole+to+breaths.jpg" \o "Order Cetacea Have fins for limbs blowhole to breaths" \t "_blank) **Order Cetacea Have fins for limbs blowhole to breaths**  
whales and dolphins

[28](https://slideplayer.com/slide/6398040/22/images/28/Order+Carnivora+Have+long+pointed+canine+and+incisors+dogs%2Fcats.jpg" \o "Order Carnivora Have long pointed canine and incisors dogs/cats" \t "_blank) Order CarnivoraHave long pointed canine and incisorsdogs/cats

[29](https://slideplayer.com/slide/6398040/22/images/29/Order+Pinnipedia+Water+dwelling.jpg" \o "Order Pinnipedia Water dwelling" \t "_blank) **Order Pinnipedia Water dwelling**  
fins for limbs that can also be used on lands for legsseals, sea lions and walruses

[30](https://slideplayer.com/slide/6398040/22/images/30/Order+Proboscidea+Have+a+long+flexible+trunk+Include+elephants.jpg" \o "Order Proboscidea Have a long flexible trunk Include elephants" \t "_blank) Order ProboscideaHave a long flexible trunkInclude elephants

[31](https://slideplayer.com/slide/6398040/22/images/31/Order+Perissadactyla+Odd+number+of+toes+toenails+modified+into+hoof.jpg" \o "Order Perissadactyla Odd number of toes toenails modified into hoof" \t "_blank) **Order Perissadactyla Odd number of toes toenails modified into hoof**  
Molars for grinding.Rhinoceroses, Tapirs, Horses, Asses & Zebras

[32](https://slideplayer.com/slide/6398040/22/images/32/Order+Artiodactyla+Even+toed+mammals+multiples+stomach+vegetarians.jpg" \o "Order Artiodactyla Even toed mammals multiples stomach vegetarians" \t "_blank) **Order Artiodactyla Even toed mammals multiples stomach vegetarians**  
Hippo, cows, and Tapirbuffalo, Cattle, Bison, Antelope, Sheep, Goats, Goat-Antelopes, Deer,Musk Deer, Camels & Llamas, Giraffe, Hippos, Pigs,(pigs & peccaries are omnivores)

[33](https://slideplayer.com/slide/6398040/22/images/33/Order+Sirenia+Large+tail+and+front+flippers+snout+points+downward.jpg" \o "Order Sirenia Large tail and front flippers snout points downward" \t "_blank) **Order Sirenia Large tail and front flippers snout points downward**  
manatees, sea cows

[34](https://slideplayer.com/slide/6398040/22/images/34/Assignment+1+Create+a+five+line+poem+line+1+name+of+animal.jpg" \o "Assignment 1 Create a five line poem line 1 name of animal" \t "_blank) **Assignment 1 Create a five line poem line 1 name of animal**  
line 2 describes what animal looks, feels, or sounds likeline 3 three words that tells how it movesline 4 four words that tell a thought about the animalline 5 name of animal

[35](https://slideplayer.com/slide/6398040/22/images/35/Assignment+words+Write+a+paragraph+speculating+why+there+are+fewer+big+mammals+than+small+mammals.+%28100+words+minimum%29.jpg" \o "Assignment words Write a paragraph speculating why there are fewer big mammals than small mammals. (100 words minimum)" \t "_blank) Assignment wordsWrite a paragraph speculating why there are fewer big mammals than small mammals. (100 words minimum)OrPick a mammal as a pet and describe what you would have to provide for it to exist. ( No Cat or dogs allowed)

[36](https://slideplayer.com/slide/6398040/22/images/36/Alternative+Test%3A+1+Report+over+a+mammal+that+includes%3B.jpg" \o "Alternative Test: 1 Report over a mammal that includes;" \t "_blank) **Alternative Test: 1 Report over a mammal that includes;**  
external/ internal structuresHabitatBehaviorsAny special adaptationsBibliography of sources ( at least 4)

[37](https://slideplayer.com/slide/6398040/22/images/37/Alternative+test%3A+2+Class+presentation.jpg" \o "Alternative test: 2 Class presentation" \t "_blank) **Alternative test: 2 Class presentation**  
15 minute oral presentations with visual aidsexternal/ internal structuresHabitatBehaviorsAny special adaptationsBibliography of sources ( at least 4)

[38](https://slideplayer.com/slide/6398040/22/images/38/Alternative+Test%3A+3+Computer+presentations+that+includes+all+the+following+information%3A+external%2F+internal+structures..jpg" \o "Alternative Test: 3 Computer presentations that includes all the following information: external/ internal structures." \t "_blank) Alternative Test: 3Computer presentations that includes all the following information:external/ internal structuresHabitatBehaviorsAny special adaptationsBibliography of sources ( at least 4)