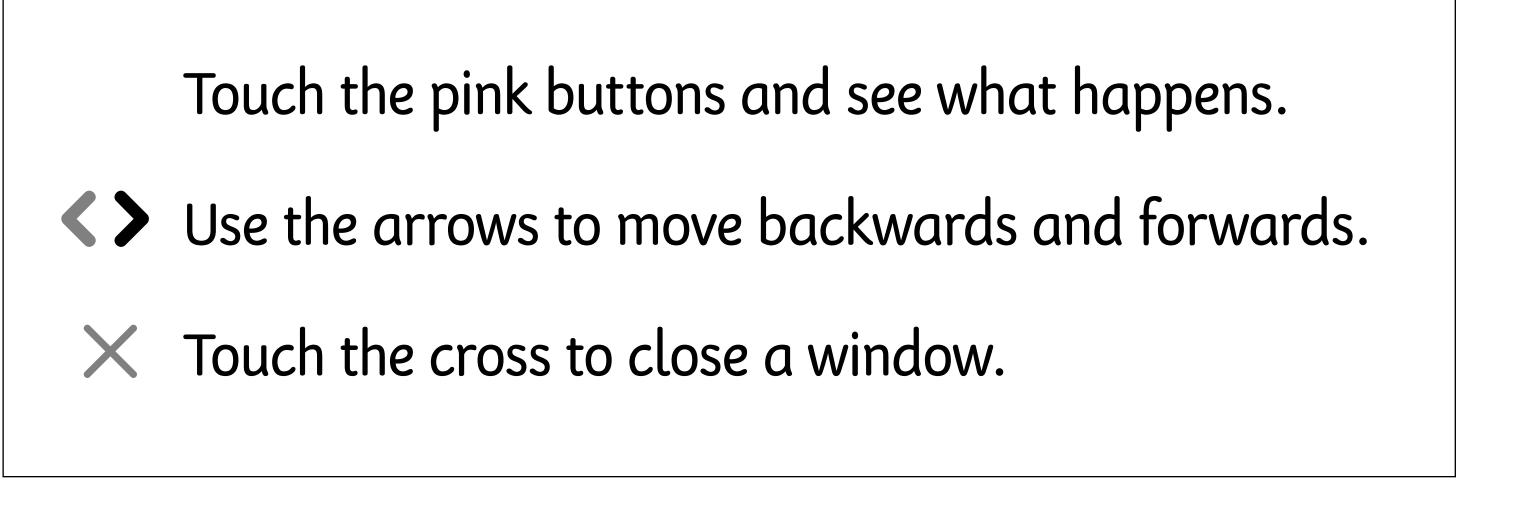
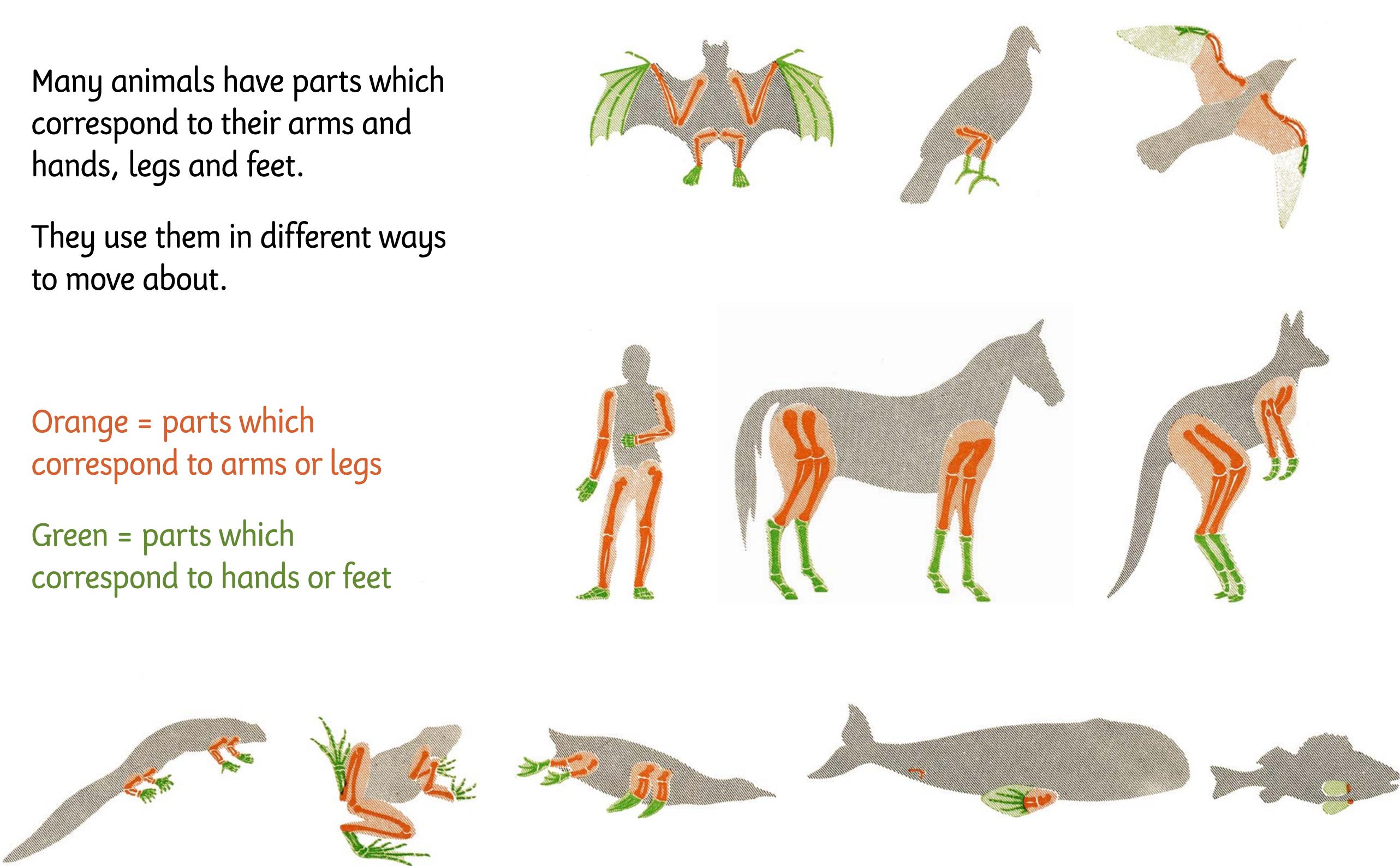
Visual science Limbs and levers





Limbs and levers



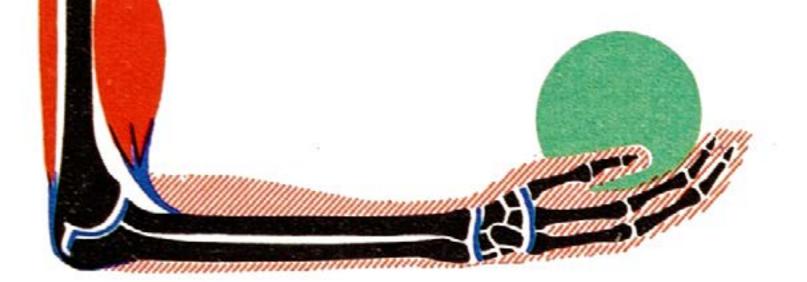
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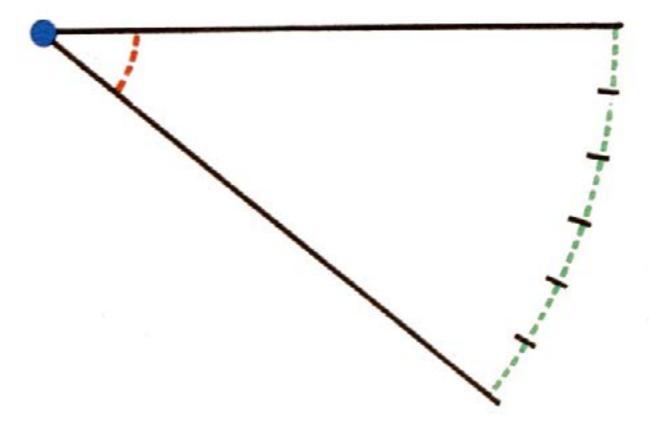
Limbs and levers

Arms and legs are made to move by muscles which get shorter or longer.

They are a sort of lever that allow a small force to have a greater effect.

When the muscle shortens, it pulls up the forearm only a short distance near the elbow, but the hand is raised six times as far.

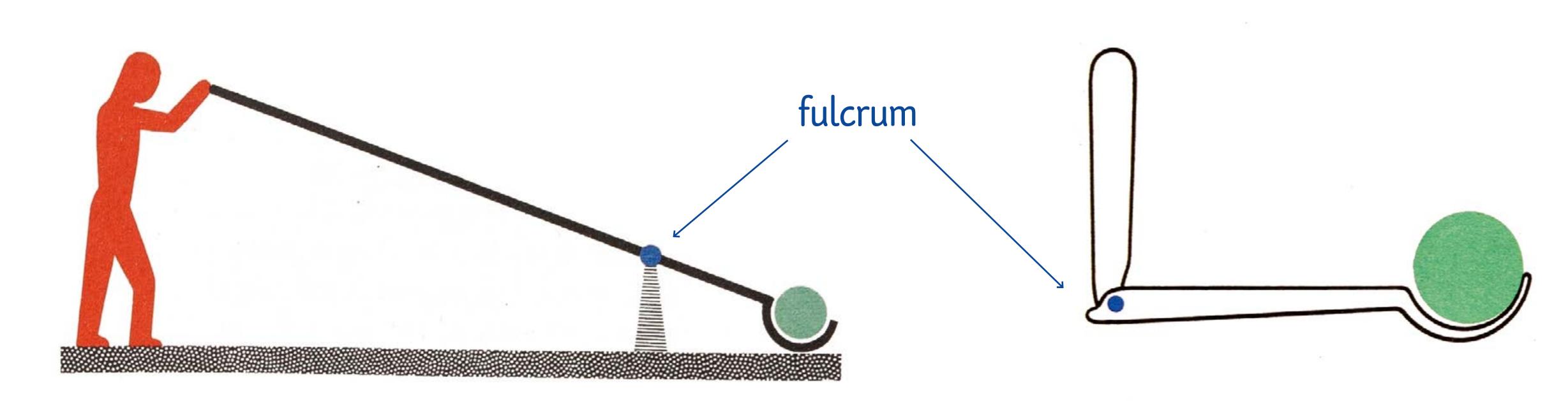




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Limbs and levers

The forearm acts as a lever.



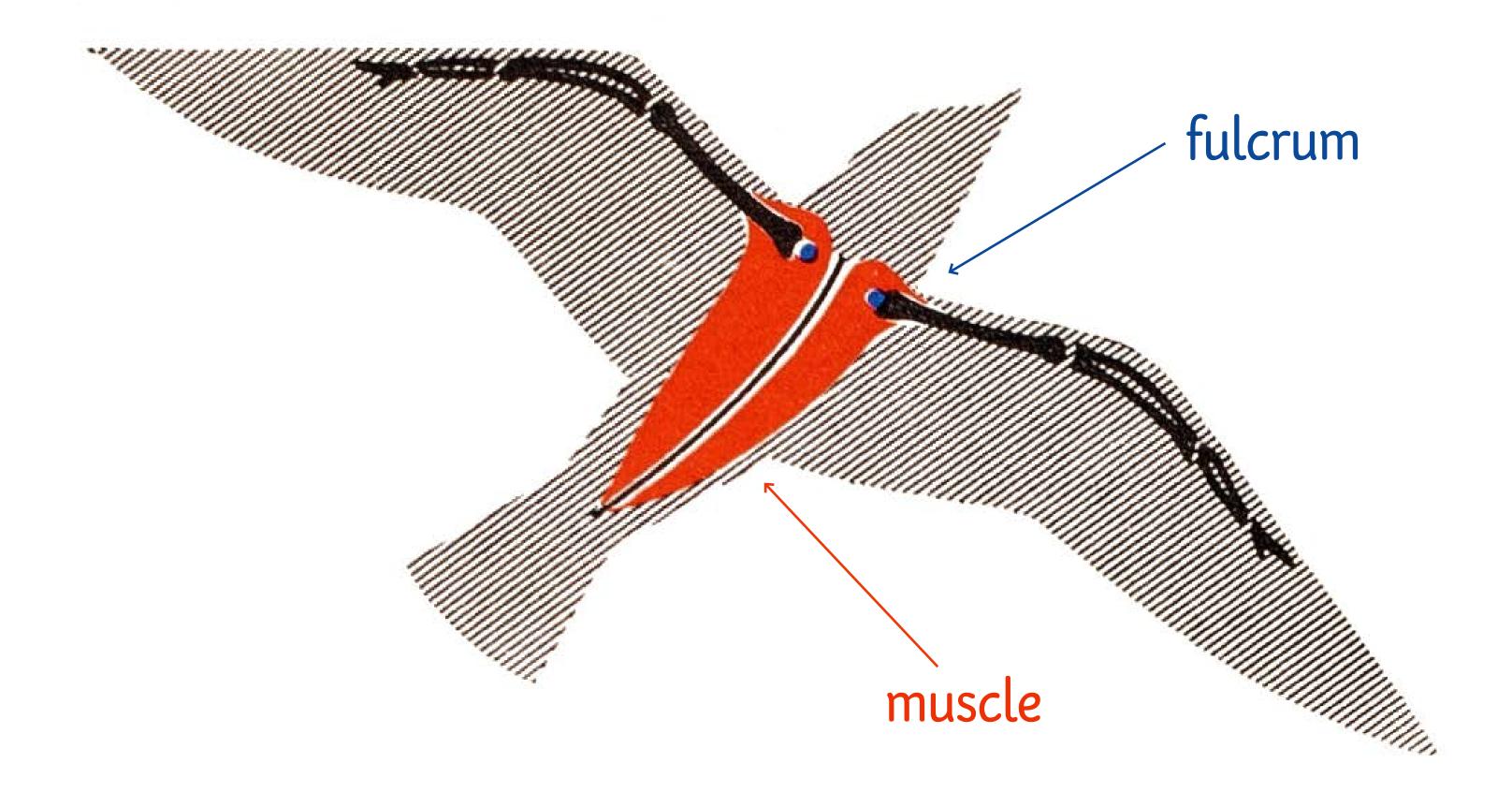
The point on which a lever is supported is called the fulcrum. The fulcrum is at the elbow joint, the weight rests on the hand.

The lifting force is applied where the tendon joins the bone of the forearm.



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Limbs and levers



Look at the picture of the bird.

The muscles move the bird's wings. The force of the muscle acts near the fulcrum.

Can you think why the bird needs powerful muscles to move its wings?