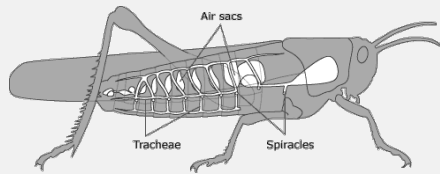


Mammals

Fish

Insects



Key Factors/Parts and Descriptions (cont)

Fluid along the tracheoles	Increases diffusion rate
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Key Factors/Parts and Descriptions

Spiracles	opens and closes to minimize water loss. Air intake in through the thorax. Air output through the body.
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Hairs around spiracles	Traps humidity to minimize water loss. Allows to keep a lower concentration gradient of water vapor so that the rate of diffusion is not so high.
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Trachea	The major tube that runs along the length of the insect.
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Tracheoles	A very thin tube that squeezes between individual cells. Lacks Chitin
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Air Sacks	Present in larger insects. Inflates and deflates to help movement of air
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Muscular Pumping	rings of muscles around the trachea squeeze in succession to force air along
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Metabolic Rate	Relatively High
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Chiton Rings	Rings of chiton support trachea.
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Availability of oxygen	21% O ₂ in air
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Surface Area	Tracheal tubes connecting directly to cells. Massive SA:V ratio
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