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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Keys and Direct Video Link

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Crash Course Biology (2012) #27: Circulatory and Respiratory Systems

Name: _____ Date: _____

You can access the video here → <https://youtu.be/9fkm85Fy4Q?si=UdhwYEBicpgSDCmz>

- _____ is the process that uses oxygen and produces CO₂ as a by-product.
- To exchange gases and move them around the body, animals rely on the _____ and circulatory systems.
- Some animals obtain O₂ across moist membranes by _____.
- Fish extract dissolved oxygen using _____ layered with filaments.
- Air travels from the larynx to the _____ then to the bronchi.
- Bronchi branch into narrower _____ that end in alveoli.
- Tiny air sacs where gas exchange occurs are the _____.
- Each alveolus is wrapped in _____ that swap O₂ for CO₂.
- The sheet of muscle that drives ventilation is the _____.
- During inhalation, lung pressure drops and air flows down its _____.
- The _____ generates high pressure to push blood into the aorta.
- Thick-walled _____ carry blood away from the heart.
- Most _____ contain valves that prevent backflow at low pressures.
- Blood from the upper body returns via the _____ to the right atrium.
- Mammals and birds maintain high metabolism with a _____ heart that fully separates oxygenated and deoxygenated blood.

Crash Course Biology (2012) #27: Circulatory and Respiratory Systems - KEY

- Cellular respiration** is the process that uses oxygen and produces CO₂ as a by-product.
- To exchange gases and move them around the body, animals rely on the **respiratory** and circulatory systems.
- Some animals obtain O₂ across moist membranes by **simple diffusion**.
- Fish extract dissolved oxygen using **gills** layered with filaments.
- Air travels from the larynx to the **trachea**, then to the bronchi.
- Bronchi branch into narrower **bronchioles** that end in alveoli.
- Tiny air sacs where gas exchange occurs are the **alveoli**.
- Each alveolus is wrapped in **capillaries** that swap O₂ for CO₂.
- The sheet of muscle that drives ventilation is the **diaphragm**.
- During inhalation, lung pressure drops and air flows down its **pressure gradient**.
- The **left ventricle** generates high pressure to push blood into the aorta.
- Thick-walled **arteries** carry blood away from the heart.
- Most **veins** contain valves that prevent backflow at low pressures.
- Blood from the upper body returns via the **superior vena cava** to the right atrium.
- Mammals and birds maintain high metabolism with a **four-chambered** heart that fully separates oxygenated and deoxygenated blood.

15 Questions

Answer Key Included

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