

UPGRADE to the Bundle

Crash Course ANATOMY & PHYSIOLOGY 48 Episode Series Bundle

- ✓ Classroom Ready - Just Print and Go!
- ✓ Active Engagement - Keep Students' Attention
- ✓ Direct Video Link Included

WATCH VIDEO



ALL 48 Episodes with Answer
Keys and Direct Video Link

CLICK HERE



Crash Course Anatomy & Physiology #16: Taste and Smell

Name: _____ Date: _____

You can access the video here → https://youtu.be/mFm3yAlnIE?si=MyoDaOTAFWE_oCE

1. Olivia had _____, a partial or complete loss of the sense of smell.
2. The process of sensory cells converting stimuli into action potentials is called _____.
3. Our sense of taste and smell are known as _____ senses.
4. The _____ epithelium is the main organ of the olfactory system.
5. Olfactory sensory neurons send signals through the _____ bone into the olfactory bulb.
6. Each smell-specific neuron's axon converges with others in a structure called a _____.
7. Mitral cells send olfactory information along the _____ tract to the brain.
8. The emotional pathway of smell signals goes to the _____ system.
9. Most taste buds are located between projections on the tongue called _____ papillae.
10. The five recognized taste sensations are sweet, salty, sour, bitter, and _____.
11. Taste receptor epithelial cells that actually do the tasting are called _____ cells.
12. Thread-like protrusions from gustatory cells that extend to the taste pore are called _____ hairs.
13. Positively-charged sodium ions trigger taste receptor cells for _____ tastes.
14. The seventh, ninth, and tenth _____ nerves carry taste information to the brain.
15. Sour-tasting foods are high in _____ ions, which activate proton channels.

Crash Course Anatomy & Physiology #16: Taste and Smell KEY

1. Olivia had **anosmia**, a partial or complete loss of the sense of smell.
2. The process of sensory cells converting stimuli into action potentials is called **transduction**.
3. Our sense of taste and smell are known as **chemical** senses.
4. The **olfactory** epithelium is the main organ of the olfactory system.
5. Olfactory sensory neurons send signals through the **ethmoid** bone into the olfactory bulb.
6. Each smell-specific neuron's axon converges with others in a structure called a **glomerulus**.
7. Mitral cells send olfactory information along the **olfactory** tract to the brain.
8. The emotional pathway of smell signals goes to the **limbic** system.
9. Most taste buds are located between projections on the tongue called **fungiform** papillae.
10. The five recognized taste sensations are sweet, salty, sour, bitter, and **umami**.
11. Taste receptor epithelial cells that actually do the tasting are called **gustatory** cells.
12. Thread-like protrusions from gustatory cells that extend to the taste pore are called **gustatory** hairs.
13. Positively-charged sodium ions trigger taste receptor cells for **salty** tastes.
14. The seventh, ninth, and tenth **cranial** nerves carry taste information to the brain.
15. Sour-tasting foods are high in **hydrogen** ions, which activate proton channels.

15 Questions

Answer Key Included

Save 85% per worksheet!