

Unit 10: The human eye: structure and function
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Topic: The human eye

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<p>Explain the process of photosynthesis in green plants.</p>	<p>1. Light energy is captured by chlorophyll in the chloroplasts.</p> <p>2. Water and carbon dioxide are used to produce glucose and oxygen.</p> <p>3. The process occurs in the chloroplasts.</p>	<p>1. Light energy is captured by chlorophyll in the chloroplasts.</p> <p>2. Water and carbon dioxide are used to produce glucose and oxygen.</p> <p>3. The process occurs in the chloroplasts.</p>	<p>1. Light energy is captured by chlorophyll in the chloroplasts.</p> <p>2. Water and carbon dioxide are used to produce glucose and oxygen.</p> <p>3. The process occurs in the chloroplasts.</p>	<p>1. Light energy is captured by chlorophyll in the chloroplasts.</p> <p>2. Water and carbon dioxide are used to produce glucose and oxygen.</p> <p>3. The process occurs in the chloroplasts.</p>
<p>Describe the structure and function of a chloroplast.</p>	<p>1. Chloroplasts are organelles found in plant cells.</p> <p>2. They contain chlorophyll, which captures light energy.</p> <p>3. They are the site of photosynthesis.</p>	<p>1. Chloroplasts are organelles found in plant cells.</p> <p>2. They contain chlorophyll, which captures light energy.</p> <p>3. They are the site of photosynthesis.</p>	<p>1. Chloroplasts are organelles found in plant cells.</p> <p>2. They contain chlorophyll, which captures light energy.</p> <p>3. They are the site of photosynthesis.</p>	<p>1. Chloroplasts are organelles found in plant cells.</p> <p>2. They contain chlorophyll, which captures light energy.</p> <p>3. They are the site of photosynthesis.</p>
<p>Explain the difference between C3 and C4 photosynthesis.</p>	<p>1. C3 photosynthesis is the most common pathway.</p> <p>2. It involves the fixation of CO₂ into a 3-carbon compound.</p> <p>3. C4 photosynthesis is a more efficient pathway.</p> <p>4. It involves the fixation of CO₂ into a 4-carbon compound.</p>	<p>1. C3 photosynthesis is the most common pathway.</p> <p>2. It involves the fixation of CO₂ into a 3-carbon compound.</p> <p>3. C4 photosynthesis is a more efficient pathway.</p> <p>4. It involves the fixation of CO₂ into a 4-carbon compound.</p>	<p>1. C3 photosynthesis is the most common pathway.</p> <p>2. It involves the fixation of CO₂ into a 3-carbon compound.</p> <p>3. C4 photosynthesis is a more efficient pathway.</p> <p>4. It involves the fixation of CO₂ into a 4-carbon compound.</p>	<p>1. C3 photosynthesis is the most common pathway.</p> <p>2. It involves the fixation of CO₂ into a 3-carbon compound.</p> <p>3. C4 photosynthesis is a more efficient pathway.</p> <p>4. It involves the fixation of CO₂ into a 4-carbon compound.</p>
<p>Describe the structure and function of a xylem vessel.</p>	<p>1. Xylem vessels are part of the vascular system in plants.</p> <p>2. They transport water and minerals from the roots to the leaves.</p> <p>3. They are made of dead cells.</p>	<p>1. Xylem vessels are part of the vascular system in plants.</p> <p>2. They transport water and minerals from the roots to the leaves.</p> <p>3. They are made of dead cells.</p>	<p>1. Xylem vessels are part of the vascular system in plants.</p> <p>2. They transport water and minerals from the roots to the leaves.</p> <p>3. They are made of dead cells.</p>	<p>1. Xylem vessels are part of the vascular system in plants.</p> <p>2. They transport water and minerals from the roots to the leaves.</p> <p>3. They are made of dead cells.</p>
<p>Explain the process of transpiration.</p>	<p>1. Transpiration is the loss of water vapor from plants.</p> <p>2. It occurs through stomata in the leaves.</p> <p>3. It is driven by the evaporation of water.</p>	<p>1. Transpiration is the loss of water vapor from plants.</p> <p>2. It occurs through stomata in the leaves.</p> <p>3. It is driven by the evaporation of water.</p>	<p>1. Transpiration is the loss of water vapor from plants.</p> <p>2. It occurs through stomata in the leaves.</p> <p>3. It is driven by the evaporation of water.</p>	<p>1. Transpiration is the loss of water vapor from plants.</p> <p>2. It occurs through stomata in the leaves.</p> <p>3. It is driven by the evaporation of water.</p>
<p>Describe the structure and function of a phloem sieve tube.</p>	<p>1. Phloem sieve tubes are part of the vascular system in plants.</p> <p>2. They transport organic nutrients from the leaves to other parts of the plant.</p> <p>3. They are made of living cells.</p>	<p>1. Phloem sieve tubes are part of the vascular system in plants.</p> <p>2. They transport organic nutrients from the leaves to other parts of the plant.</p> <p>3. They are made of living cells.</p>	<p>1. Phloem sieve tubes are part of the vascular system in plants.</p> <p>2. They transport organic nutrients from the leaves to other parts of the plant.</p> <p>3. They are made of living cells.</p>	<p>1. Phloem sieve tubes are part of the vascular system in plants.</p> <p>2. They transport organic nutrients from the leaves to other parts of the plant.</p> <p>3. They are made of living cells.</p>
<p>Explain the process of root water uptake.</p>	<p>1. Water uptake occurs through the root hairs.</p> <p>2. It is driven by the osmotic potential difference between the soil and the root cells.</p> <p>3. The process involves the movement of water from the soil into the root cells.</p>	<p>1. Water uptake occurs through the root hairs.</p> <p>2. It is driven by the osmotic potential difference between the soil and the root cells.</p> <p>3. The process involves the movement of water from the soil into the root cells.</p>	<p>1. Water uptake occurs through the root hairs.</p> <p>2. It is driven by the osmotic potential difference between the soil and the root cells.</p> <p>3. The process involves the movement of water from the soil into the root cells.</p>	<p>1. Water uptake occurs through the root hairs.</p> <p>2. It is driven by the osmotic potential difference between the soil and the root cells.</p> <p>3. The process involves the movement of water from the soil into the root cells.</p>

<p>1. Myxozoa Myxozoa are unicellular organisms that lack a nucleus and mitochondria. They are found in freshwater and marine environments. They have a unique life cycle involving both asexual and sexual reproduction. Sexual reproduction involves a complex process of asexual reproduction followed by a sexual phase where a gamete is produced.</p>	<p>2. Microsporidia Microsporidia are unicellular, spore-forming organisms that lack a nucleus and mitochondria. They are found in a wide range of environments, including soil, water, and the intestines of many animals. They have a unique life cycle where the sporozoite is the infective stage.</p>	<p>3. Microsporidia Microsporidia are unicellular, spore-forming organisms that lack a nucleus and mitochondria. They are found in a wide range of environments, including soil, water, and the intestines of many animals. They have a unique life cycle where the sporozoite is the infective stage.</p>
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	<p>• improve research, data value analysis, efficiency & productivity & growth.</p> <p>• AI, cloud-computing, mobile devices, social media.</p> <p>• Digital Transformation Strategy</p> <p>• Data Analytics</p> <p>• Process redesign</p> <p>• Business model innovation</p> <p>• Customer experience</p> <p>• Digital marketing</p> <p>• Digital operations</p> <p>• Digital supply chain</p> <p>• Digital HR</p> <p>• Digital R&D</p> <p>• Digital security</p> <p>• Digital compliance</p> <p>• Digital risk management</p> <p>• Digital sustainability</p>				
<p>Customer interaction</p>	<p>Customer interaction strategy</p> <p>• Personalized marketing</p> <p>• Social media engagement</p> <p>• AI chatbots</p> <p>• Virtual assistants</p> <p>• Augmented reality</p> <p>• Digital loyalty programs</p> <p>• Digital customer support</p> <p>• Digital feedback loops</p> <p>• Digital brand experience</p> <p>• Digital customer journey</p> <p>• Digital customer segmentation</p> <p>• Digital customer retention</p> <p>• Digital customer acquisition</p> <p>• Digital customer engagement</p> <p>• Digital customer loyalty</p> <p>• Digital customer advocacy</p> <p>• Digital customer community</p> <p>• Digital customer ecosystem</p> <p>• Digital customer ecosystem</p>	<p>1. Customer interaction strategy</p> <p>2. Personalized marketing</p> <p>3. Social media engagement</p> <p>4. AI chatbots</p> <p>5. Virtual assistants</p> <p>6. Augmented reality</p> <p>7. Digital loyalty programs</p> <p>8. Digital customer support</p> <p>9. Digital feedback loops</p> <p>10. Digital brand experience</p> <p>11. Digital customer journey</p> <p>12. Digital customer segmentation</p> <p>13. Digital customer retention</p> <p>14. Digital customer acquisition</p> <p>15. Digital customer engagement</p> <p>16. Digital customer loyalty</p> <p>17. Digital customer advocacy</p> <p>18. Digital customer community</p> <p>19. Digital customer ecosystem</p> <p>20. Digital customer ecosystem</p>	<p>1. Customer interaction strategy</p> <p>2. Personalized marketing</p> <p>3. Social media engagement</p> <p>4. AI chatbots</p> <p>5. Virtual assistants</p> <p>6. Augmented reality</p> <p>7. Digital loyalty programs</p> <p>8. Digital customer support</p> <p>9. Digital feedback loops</p> <p>10. Digital brand experience</p> <p>11. Digital customer journey</p> <p>12. Digital customer segmentation</p> <p>13. Digital customer retention</p> <p>14. Digital customer acquisition</p> <p>15. Digital customer engagement</p> <p>16. Digital customer loyalty</p> <p>17. Digital customer advocacy</p> <p>18. Digital customer community</p> <p>19. Digital customer ecosystem</p> <p>20. Digital customer ecosystem</p>	<p>1. Customer interaction strategy</p> <p>2. Personalized marketing</p> <p>3. Social media engagement</p> <p>4. AI chatbots</p> <p>5. Virtual assistants</p> <p>6. Augmented reality</p> <p>7. Digital loyalty programs</p> <p>8. Digital customer support</p> <p>9. Digital feedback loops</p> <p>10. Digital brand experience</p> <p>11. Digital customer journey</p> <p>12. Digital customer segmentation</p> <p>13. Digital customer retention</p> <p>14. Digital customer acquisition</p> <p>15. Digital customer engagement</p> <p>16. Digital customer loyalty</p> <p>17. Digital customer advocacy</p> <p>18. Digital customer community</p> <p>19. Digital customer ecosystem</p> <p>20. Digital customer ecosystem</p>	<p>1. Customer interaction strategy</p> <p>2. Personalized marketing</p> <p>3. Social media engagement</p> <p>4. AI chatbots</p> <p>5. Virtual assistants</p> <p>6. Augmented reality</p> <p>7. Digital loyalty programs</p> <p>8. Digital customer support</p> <p>9. Digital feedback loops</p> <p>10. Digital brand experience</p> <p>11. Digital customer journey</p> <p>12. Digital customer segmentation</p> <p>13. Digital customer retention</p> <p>14. Digital customer acquisition</p> <p>15. Digital customer engagement</p> <p>16. Digital customer loyalty</p> <p>17. Digital customer advocacy</p> <p>18. Digital customer community</p> <p>19. Digital customer ecosystem</p> <p>20. Digital customer ecosystem</p>
<p>Business model innovation</p>	<p>Business model innovation strategy</p> <p>• Digital business models</p> <p>• Subscription models</p> <p>• Freemium models</p> <p>• Pay-per-use models</p> <p>• Digital advertising</p> <p>• Digital marketing</p> <p>• Digital sales</p> <p>• Digital distribution</p> <p>• Digital supply chain</p> <p>• Digital operations</p> <p>• Digital HR</p> <p>• Digital R&D</p> <p>• Digital security</p> <p>• Digital compliance</p> <p>• Digital risk management</p> <p>• Digital sustainability</p>	<p>1. Business model innovation strategy</p> <p>2. Digital business models</p> <p>3. Subscription models</p> <p>4. Freemium models</p> <p>5. Pay-per-use models</p> <p>6. Digital advertising</p> <p>7. Digital marketing</p> <p>8. Digital sales</p> <p>9. Digital distribution</p> <p>10. Digital supply chain</p> <p>11. Digital operations</p> <p>12. Digital HR</p> <p>13. Digital R&D</p> <p>14. Digital security</p> <p>15. Digital compliance</p> <p>16. Digital risk management</p> <p>17. Digital sustainability</p>	<p>1. Business model innovation strategy</p> <p>2. Digital business models</p> <p>3. Subscription models</p> <p>4. Freemium models</p> <p>5. Pay-per-use models</p> <p>6. Digital advertising</p> <p>7. Digital marketing</p> <p>8. Digital sales</p> <p>9. Digital distribution</p> <p>10. Digital supply chain</p> <p>11. Digital operations</p> <p>12. Digital HR</p> <p>13. Digital R&D</p> <p>14. Digital security</p> <p>15. Digital compliance</p> <p>16. Digital risk management</p> <p>17. Digital sustainability</p>	<p>1. Business model innovation strategy</p> <p>2. Digital business models</p> <p>3. Subscription models</p> <p>4. Freemium models</p> <p>5. Pay-per-use models</p> <p>6. Digital advertising</p> <p>7. Digital marketing</p> <p>8. Digital sales</p> <p>9. Digital distribution</p> <p>10. Digital supply chain</p> <p>11. Digital operations</p> <p>12. Digital HR</p> <p>13. Digital R&D</p> <p>14. Digital security</p> <p>15. Digital compliance</p> <p>16. Digital risk management</p> <p>17. Digital sustainability</p>	<p>1. Business model innovation strategy</p> <p>2. Digital business models</p> <p>3. Subscription models</p> <p>4. Freemium models</p> <p>5. Pay-per-use models</p> <p>6. Digital advertising</p> <p>7. Digital marketing</p> <p>8. Digital sales</p> <p>9. Digital distribution</p> <p>10. Digital supply chain</p> <p>11. Digital operations</p> <p>12. Digital HR</p> <p>13. Digital R&D</p> <p>14. Digital security</p> <p>15. Digital compliance</p> <p>16. Digital risk management</p> <p>17. Digital sustainability</p>
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