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Crash Course Biology #9: The Effects of Climate Change

Name: _____ Date: _____

You can access the video here → <https://youtu.be/7fsAUGbUg68?si=2n7ny-et4velGrLK>

1. The burning of _____ fuels has released billions of tons of heat-trapping carbon dioxide into our atmosphere.
2. Rising global temperatures have caused more frequent _____ and wildfires, making forests more vulnerable to insect damage.
3. Warmer oceans allow _____ populations to grow, which can harm marine life by causing oxygen depletion.
4. The disappearance of sea stars has led to a surge in the population of _____, which overconsume kelp forests.
5. Climate change is forcing some species to migrate to new areas, such as _____ appearing in Indiana.
6. The increased acidity of the ocean is making it difficult for _____ and clams to build their shells.
7. The phenomenon where species change their seasonal behaviors, such as blooming or migrating earlier, is known as _____.
8. Rising temperatures are causing species like the _____ to struggle with heat stress and move higher up mountains.
9. Some species, such as mountain pine beetles, thrive in hotter, drier climates and multiply, leading to widespread destruction of _____.
10. The loss of kelp forests affects entire ecosystems, including whales, birds, and fish that use them as a habitat and food source, turning them into _____ towns.
11. Increased levels of carbon dioxide in the atmosphere can cause some plants to grow _____ leaves, making them less efficient at absorbing CO₂.
12. Climate change disproportionately affects _____ communities, who have fewer resources to adapt to extreme weather and environmental changes.
13. Investing in ecosystems like coastal _____ can help protect vulnerable communities from flooding while also absorbing carbon dioxide.
14. Changes in temperature and seasonal timing have caused _____ to struggle to find enough food because their migration patterns no longer align with plant growth.
15. The only surefire way to limit climate change's effects is to reduce emissions of carbon dioxide and other _____ gases.

Crash Course Biology #9: The Effects of Climate Change – KEY

1. The burning of *fossil* fuels has released billions of tons of heat-trapping carbon dioxide into our atmosphere.
2. Rising global temperatures have caused more frequent *droughts* and wildfires, making forests more vulnerable to insect damage.
3. Warmer oceans allow *bacteria* populations to grow, which can harm marine life by causing oxygen depletion.
4. The disappearance of sea stars has led to a surge in the population of *sea urchins*, which overconsume kelp forests.
5. Climate change is forcing some species to migrate to new areas, such as *armadillos* appearing in Indiana.
6. The increased acidity of the ocean is making it difficult for *coral* and clams to build their shells.
7. The phenomenon where species change their seasonal behaviors, such as blooming or migrating earlier, is known as *phenology*.
8. Rising temperatures are causing species like the *pika* to struggle with heat stress and move higher up mountains.
9. Some species, such as mountain pine beetles, thrive in hotter, drier climates and multiply, leading to widespread destruction of *forests*.
10. The loss of kelp forests affects entire ecosystems, including whales, birds, and fish that use them as a habitat and food source, turning them into *zombie* towns.
11. Increased levels of carbon dioxide in the atmosphere can cause some plants to grow *thicker* leaves, making them less efficient at absorbing CO₂.
12. Climate change disproportionately affects *low-income* communities, who have fewer resources to adapt to extreme weather and environmental changes.
13. Investing in ecosystems like coastal *mangroves* can help protect vulnerable communities from flooding while also absorbing carbon dioxide.
14. Changes in temperature and seasonal timing have caused *caribou* to struggle to find enough food because their migration patterns no longer align with plant growth.
15. The only surefire way to limit climate change's effects is to reduce emissions of carbon dioxide and other *greenhouse* gases.

15 Questions

Answer Key Included

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