

Palo Corona Redwood Worksheet

Listen to your instructor's presentation about the redwoods in Palo Corona Regional Park to answer the following questions.

Redwoods

1. Redwoods can grow more than ____ feet wide and more than ____ feet tall.
2. How far back do the oldest known redwood fossils date? _____
3. What percent of original old-growth redwood forest remains in California today? _____
4. How many tons of carbon can an acre of redwood trees store? _____

Palo Corona

1. What is the name of an endangered species or habitat found in Palo Corona? _____
2. How many acres of redwoods are in Palo Corona? _____
 - a. If each acre of redwoods stores 1,000 metric tons, how many tons of carbon does PC's redwood habitat store? (Hint: round to the nearest 10 acres before multiplying) _____
 - b. If a car produces about 5 tons of carbon dioxide per year, how many cars would we need to take off the road for one year to amount to the same amount of carbon stored by PC's redwoods? (Hint: divide the number of tons of carbon PC's redwoods store by 5) _____
3. Discussion Question: Why do you think regional parks are important?

Climate Change

1. What is the main driver of climate change? _____
2. What is weather? _____. What is climate? _____.
3. What are some changes we are expecting to see in Palo Corona and the Monterey Peninsula due to climate change?

4. Discussion Question: Can you think of a good metaphor for the difference between climate and weather?

5. Discussion Question: Why is it important to talk about climate change, particularly its causes and effects?

Redwoods & Climate Change

1. Changes in _____, _____, and _____ can make it hard for redwoods to survive.
2. Why is fog so important to redwoods? _____.
3. Changes in what two factors could potentially cause changes in where fog forms?
_____.

Looking Forward: What can you do to help?

1. What is one reason we should be hopeful for redwoods survival? _____
2. What are some ways we can stop climate change? _____
3. What is one action you are able and willing to take to help? _____
4. Discussion Question: While personal actions are important, the best way to prevent climate change isn't working alone - it's working together with your community. Brainstorm some ideas for how your class or school can work together to help stop climate change. Pick which idea your group feels most passionate about. How can you start to implement it (start a petition among classmates, talk about it at your school's board meeting, etc.)?