

# Fire Story

This assessment is designed to see what you learned from the last few weeks of online activities

One summer night a family of four was sitting outside by a fire. They had been adding wood to the fire for a long time and it had burned bright and hot. Eventually it got late and the father decides it is time for the kids to go to bed. He asks the mother to put out the fire while he brings them inside.



The mother takes a bucket of water and pours it all over the fire. There is a big WHOOSH and lots of smoke. The mother looks at the fire and sees that there are no more flames or embers. She goes inside and the family goes to sleep.



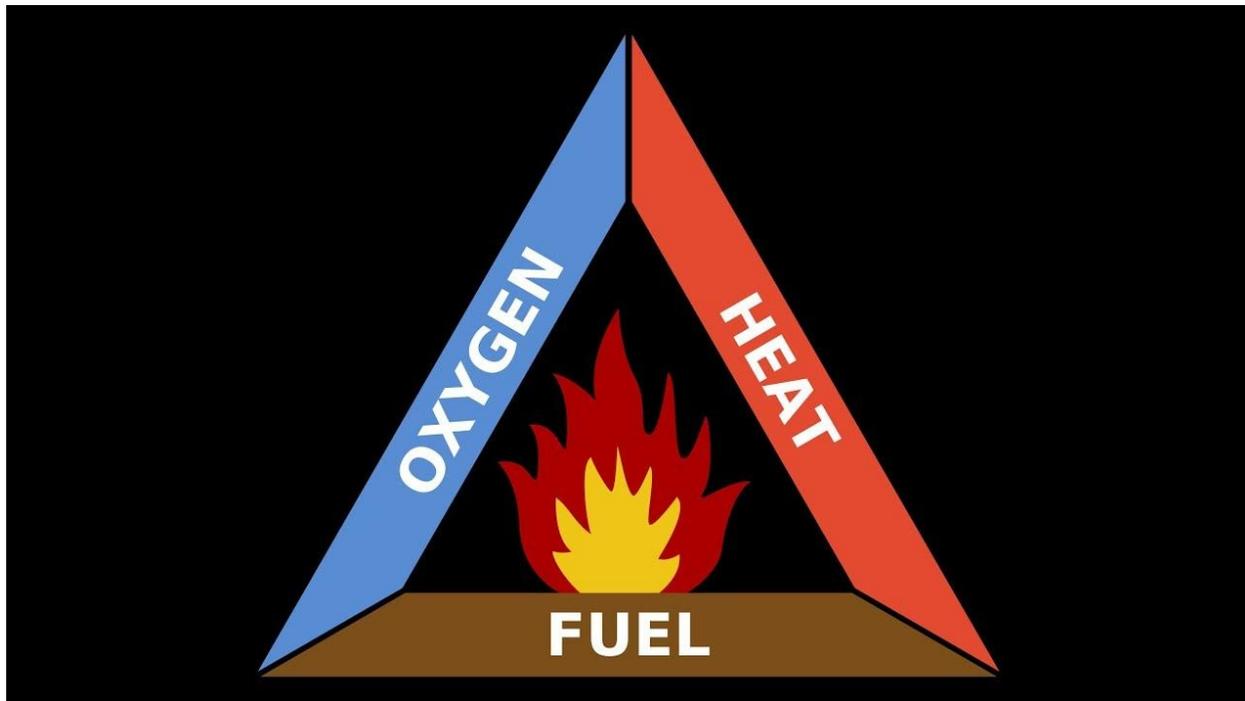
The next morning the father looks out the window and sees that there is smoke coming from the fire pit. He goes outside and pokes the ashes with a stick and sees that there are still coals and embers burning in the pit. He yells to his wife and asks "Why didn't you put out the fire like I asked?" She looks at the fire pit and sees that the embers are still burning. She says "I did! I poured a bucket of water on it and there were no more flames!" The father thinks the mother was just being lazy and didn't do a good enough job. He tells her to be more careful next time and goes inside. The mother looks at the fire pit and is confused. She knows that she poured a lot of water on the pit and she is not sure why the fire did not go out.



1. Why do you think the fire did not go out?

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## Section 2



2. In order for a fire to burn it needs 3 things. Fuel, a heat source and oxygen. Does this information change your thinking?

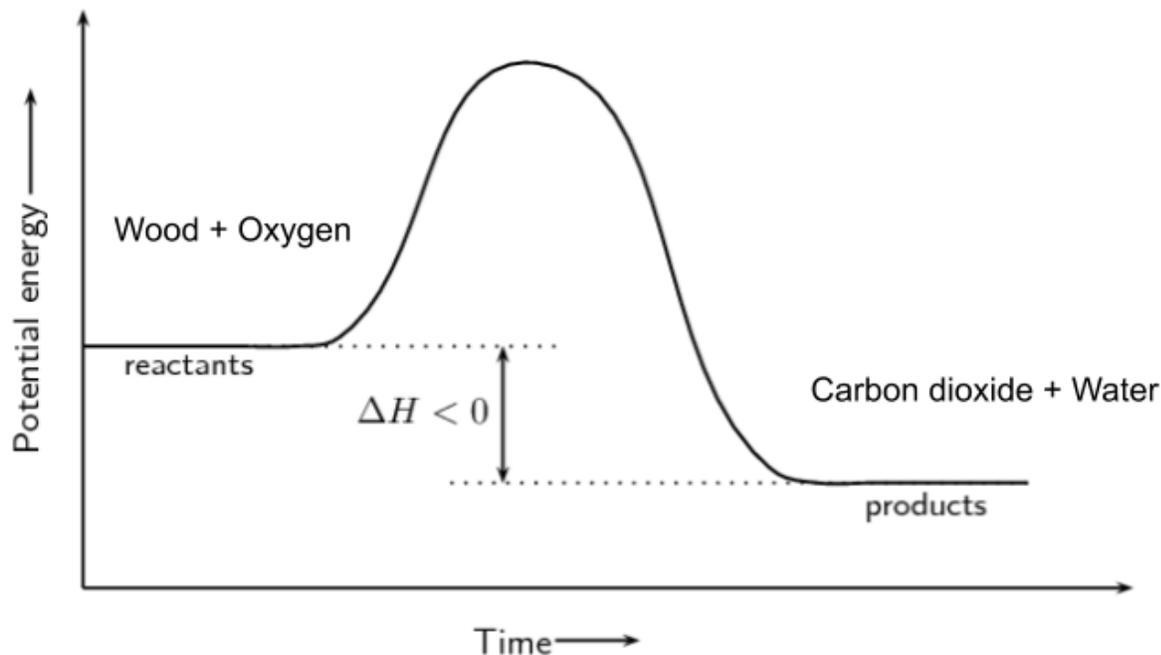
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### Section 3

3. Wood is made mostly of cellulose, an organic molecule that contains carbon, oxygen and hydrogen. Water is a small molecule made of 2 hydrogens and 1 oxygen. Does this information change your thinking?

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### Section 4



4. Does the information in the graph above change your thinking?

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### Section 5

5. Water has a boiling point of 100C. Wood begins to burn around 300C. Does this information change your thinking?

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### Section 6

6. The next night the mother puts out the fire again. This time she pours a bucket of sand on the fire. The flames go out and she goes inside. The next morning the father again finds that there are embers beneath the ash. Does this information change your thinking?

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## Section 7

That's it! Your done! Thanks for your responses.

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