↑ JuiH



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Explain the task to each other again in your own words.

State what you understood the task to be and what is still unclear to you.

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Answer 1:

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2 JniH



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Think about the dangers that a vintner can encounter in a wine cellar.

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Answer 2:

Wine is stored in a wine cellar.

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Recall what you have learned about alcoholic fermentation.

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Answer 3:

During alcoholic fermentation, alcohol is produced from sugar by yeast.

$$C_6H_{12}O_6 \longrightarrow 2 C_2H_5OH + 2 CO_2 + energy$$

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What do you know about carbon dioxide?

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Answer 4:

CO₂ is formed during many combustion processes and during respiration.

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6 JniH



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Now you know the danger that could lurk in the wine cellar. How can a candle help avoid this danger? Now you know the danger that could lurk in the wine cellar. How can a candle help avoid this danger?

Answer 5:

A candle flame goes out if there is no longer enough oxygen in the air and if the concentration of CO₂ has increased significantly.

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9 JniH



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Now you have all the information you need to give and support an answer.

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Answer 6:

The vintner takes a candle into the cellar to determine whether too much CO₂ is in the air.

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With a candle in his hand, he is warned in time because the flame goes out.

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