A twist on the candle mystery

Activity 1 Worksheet:
The candle mystery

Task 1: Individual reflection

Scenario:

Three candles of different lengths are lit and covered with a bell jar, as shown below.

Image courtesy of the author

Complete the table below.

Which candle will go out first? Will the three candles go out at similar times?

<table>
<thead>
<tr>
<th>Your prediction</th>
<th>Your initial explanation for your prediction</th>
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<tbody>
<tr>
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</tbody>
</table>
Task 2: Group discussion

Scenario:

Three candles of different lengths are lit and covered with a bell jar, as shown below.

Image courtesy of the author

Share your predictions and proposed explanations with your classmates. Come to a consensus on your group’s predictions and explanations.

Which candle will go out first? Will the three candles burn out at similar times?

Guiding questions:

- Why do you think the tallest or shortest candle goes out first?/Why do you think the candles go out at similar times?
- After listening to your classmates’ ideas, would you change your prediction?
- How would you convince others that your prediction is correct?

<table>
<thead>
<tr>
<th>Your group’s prediction</th>
<th>Your group’s explanation</th>
</tr>
</thead>
<tbody>
<tr>
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