Sarah looked at some pond water with a microscope. She used the low-power objective lens to look at some green algae. The picture below shows what Sarah saw through the microscope.

1. If Sarah switched the lens from low power to high power, what would she see in the field of view?
   A) A lot more cells than with the low-power view, but in lesser detail.
   B) The same number of cells as with the low-power view, but in lesser detail.
   C) The same number of cells as with the low-power view, but in greater detail.
   D) Fewer cells than with the low-power view, but in greater detail.

NAEP released item, grade 8
Question 1

Key

1. If Sarah switched the lens from low power to high power, what would she see in the field of view?

   A) A lot more cells than with the low-power view, but in lesser detail.
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2005 National Performance Results

<table>
<thead>
<tr>
<th>Score</th>
<th>Percentage of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correct</td>
<td>31%</td>
</tr>
<tr>
<td>Incorrect</td>
<td>68%</td>
</tr>
<tr>
<td>Omitted</td>
<td>0%</td>
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</tbody>
</table>

Note:

- These results are for public and nonpublic school students.
- Percentages may not add to 100 due to rounding.

The Fields of Science: Life Sciences (Sub content classification: Cells and Their Functions)
Knowing and Doing Science: Scientific Investigation
The Fields of Science

*Life Sciences*

This question measures basic knowledge and understanding of the following:

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**Knowing and Doing Science**

*Scientific Investigation*

Scientific investigation probes students’ abilities to use the tools of science, including both cognitive and laboratory tools. Students should be able to acquire new information, plan appropriate investigations, use a variety of scientific tools, and communicate the results of their investigations.