Initial Report

Last Modified: 04/19/2012

2. Please click the answer (strongly disagree, disagree, neither agree nor disagree, agree, or strongly agree) that best fits the question or comment below.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| # | Question | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Responses | Mean |
| 1 | 1. I can explain how data are obtained by scientists. | 5 | 4 | 32 | 96 | 16 | 153 | 3.75 |
| 2 | 2. The lecture part of my Foundational Studies science course increased my ability to explain how data are obtained by scientists | 9 | 8 | 30 | 89 | 18 | 154 | 3.64 |
| 3 | 3. I can explain how scientists come up with hypotheses and develop theories. | 5 | 3 | 19 | 103 | 24 | 154 | 3.90 |
| 4 | 4. The lecture part of my Foundational Studies science course increased my ability to explain how scientists come up with hypotheses and develop theories. | 9 | 8 | 27 | 87 | 22 | 153 | 3.69 |
| 5 | 5. I can come up with a scientific hypothesis to answer a question or to provide an explanation for an observation. | 4 | 9 | 32 | 79 | 30 | 154 | 3.79 |
| 6 | 6. The lecture part of my Foundational Studies science course increased my ability to come up with hypotheses. | 9 | 10 | 34 | 71 | 30 | 154 | 3.67 |
| 7 | 7. I can test a scientific hypothesis. | 6 | 6 | 30 | 86 | 26 | 154 | 3.78 |
| 8 | 8. The lecture part of my Foundational Studies science course increased my ability to test scientific hypotheses. | 8 | 12 | 31 | 80 | 20 | 151 | 3.61 |
| 9 | 9. I can apply scientific theories to predict the nature and behavior of new systems, environments, or scenarios. | 4 | 12 | 35 | 79 | 23 | 153 | 3.69 |
| 10 | 10. The lecture part of my Foundational Studies science course increased my ability to apply scientific theories to predict the nature and behavior of new systems, environments, or scenarios. | 7 | 13 | 38 | 76 | 20 | 154 | 3.58 |
| 11 | 11. I can tell others about the importance of science and technology in current issues that affect society. | 5 | 4 | 22 | 87 | 35 | 153 | 3.93 |
| 12 | 12. The lecture part of my Foundational Studies science course increased my ability to tell others about the importance of science and technology in current issues that affect society. | 7 | 5 | 32 | 81 | 28 | 153 | 3.77 |

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| Statistic | 1. I can explain how data are obtained by scientists. | 2. The lecture part of my Foundational Studies science course increased my ability to explain how data are obtained by scientists | 3. I can explain how scientists come up with hypotheses and develop theories. | 4. The lecture part of my Foundational Studies science course increased my ability to explain how scientists come up with hypotheses and develop theories. | 5. I can come up with a scientific hypothesis to answer a question or to provide an explanation for an observation. | 6. The lecture part of my Foundational Studies science course increased my ability to come up with hypotheses. | 7. I can test a scientific hypothesis. | 8. The lecture part of my Foundational Studies science course increased my ability to test scientific hypotheses. | 9. I can apply scientific theories to predict the nature and behavior of new systems, environments, or scenarios. | 10. The lecture part of my Foundational Studies science course increased my ability to apply scientific theories to predict the nature and behavior of new systems, environments, or scenarios. | 11. I can tell others about the importance of science and technology in current issues that affect society. | 12. The lecture part of my Foundational Studies science course increased my ability to tell others about the importance of science and technology in current issues that affect society. |
| Min Value | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Max Value | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mean | 3.75 | 3.64 | 3.90 | 3.69 | 3.79 | 3.67 | 3.78 | 3.61 | 3.69 | 3.58 | 3.93 | 3.77 |
| Variance | 0.65 | 0.92 | 0.64 | 0.97 | 0.83 | 1.10 | 0.83 | 0.99 | 0.84 | 0.95 | 0.77 | 0.89 |
| Standard Deviation | 0.81 | 0.96 | 0.80 | 0.98 | 0.91 | 1.05 | 0.91 | 0.99 | 0.91 | 0.98 | 0.88 | 0.94 |
| Total Responses | 153 | 154 | 154 | 153 | 154 | 154 | 154 | 151 | 153 | 154 | 153 | 153 |

3. Please click the answer (strongly disagree, disagree, neither agree nor disagree, agree, or strongly agree) that best fits the question or comment below.

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| --- | --- | --- | --- | --- | --- | --- |
| # | Question | Disagree | Neither Agree Nor Disagree | Agree | Responses | Mean |
| 1 | 1. My Foundational Studies laboratory course helped me learn concepts that were taught in the lecture part of the course. | 15 | 50 | 89 | 154 | 2.48 |
| 2 | 2. I can come up with a scientific hypothesis to answer a question or to provide an explanation for an observation. | 7 | 56 | 91 | 154 | 2.55 |
| 3 | 3. The laboratory part of my Foundational Studies science course increased my ability to come up with hypotheses. | 15 | 55 | 83 | 153 | 2.44 |
| 4 | 4. I can test a scientific hypothesis. | 6 | 45 | 100 | 151 | 2.62 |
| 5 | 5. The laboratory part of my Foundational Studies science course increased my ability to test scientific hypotheses. | 9 | 49 | 96 | 154 | 2.56 |
| 6 | 6. In the laboratory part of my Foundational Studies science course, I gathered and analyzed data. | 5 | 51 | 98 | 154 | 2.60 |
| 7 | 7. In the laboratory part of my Foundational Studies science course, I presented the analysis and findings of a lab experience. | 10 | 46 | 97 | 153 | 2.57 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Statistic | 1. My Foundational Studies laboratory course helped me learn concepts that were taught in the lecture part of the course. | 2. I can come up with a scientific hypothesis to answer a question or to provide an explanation for an observation. | 3. The laboratory part of my Foundational Studies science course increased my ability to come up with hypotheses. | 4. I can test a scientific hypothesis. | 5. The laboratory part of my Foundational Studies science course increased my ability to test scientific hypotheses. | 6. In the laboratory part of my Foundational Studies science course, I gathered and analyzed data. | 7. In the laboratory part of my Foundational Studies science course, I presented the analysis and findings of a lab experience. |
| Min Value | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Max Value | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Mean | 2.48 | 2.55 | 2.44 | 2.62 | 2.56 | 2.60 | 2.57 |
| Variance | 0.45 | 0.34 | 0.45 | 0.32 | 0.37 | 0.31 | 0.38 |
| Standard Deviation | 0.67 | 0.58 | 0.67 | 0.56 | 0.60 | 0.55 | 0.62 |
| Total Responses | 154 | 154 | 153 | 151 | 154 | 154 | 153 |