Block 1

Q1. **Do you expect to see connections between what you learn in this course and your other science courses?**

- ◯ Yes, lots of connections
- ◯ Yes, some connections
- ◯ Yes, a few connections
- ◯ No, no connections

Default Question Block

Q2. **To be successful in this course, I don't expect to have to bring in ideas from my biology or chemistry courses.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
◯	◯	◯	◯	◯

Q3. **Time should not be taken out of biology courses to present physics.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
◯	◯	◯	◯	◯

Q4. **Time should not be taken out of physics courses to present biology.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
◯	◯	◯	◯	◯

Q5.
My biology background helps me do problems in physics class.

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
◯	◯	◯	◯	◯

Q6. **It is beneficial to me, as a biologist, to also be proficient in physics.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
◯	◯	◯	◯	◯

Q7. **Ideas I learned in physics are rarely useful in biology.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
◯	◯	◯	◯	◯

Q8. **Physics helps me make sense of biological phenomena.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
◯	◯	◯	◯	◯

○	○	○	○	○

Q9. **Ideas I learned in biology are rarely useful in physics.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q10. **Physics is largely irrelevant for understanding biological processes.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q11. **Mathematics helps me make deeper sense of biological phenomena.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q12. **Math provides another way of describing biological phenomena, but rarely provides a deeper or better understanding.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q13. **Ideas I learned in math are rarely useful in biology.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q14. **We use this statement to discard survey respondents who are not reading the questions. Please select "Agree" for this question to preserve your answers.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q15. **It is beneficial to me, as a biologist, to also be proficient in math.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q16. **Equations help me make deeper sense of biological phenomena.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q17. **Equations are rarely useful in biology.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q18. **Numerical calculations are rarely useful in biology.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q19. **Numerical calculations help me make deeper sense of biological phenomena.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q20. **Equations help me make deeper sense of physical phenomena.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q21. **Equations are rarely useful in physics.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q22. **Numerical calculations are rarely useful in physics.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q23. **Numerical calculations help me make deeper sense of physical phenomena.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q24. **Simple models are useful in physics.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q25. **Simple models are useful in biology.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q26. **To help you solve a problem in physics, you sometimes need to leave out details.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q27. **To help you solve a problem in biology, you sometimes need to leave out details.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q28. **Most biology ideas are too complex to describe with an equation.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q29. **Most physics ideas are too complex to describe with an equation.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q30. **Most simplifications in physics are done without a good reason.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q31. **Most simplifications in biology are done without a good reason.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q32. **When I make a simplification in a physics problem, I want there to be justified good reason for doing so.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○

Q33. **When I make a simplification in a biology problem, I want there to be a good reason for doing so.**

Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree
○	○	○	○	○