

Standard 8

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| 8A | Students know how natural selection determines the differential survival of groups of organisms |
| 8B | Students know that a great diversity of species increases the chance that at least some organisms survive major changes in the environment |
| 8C | Students know the effects of genetic drift on the diversity of organisms in a population |
| 8D | Students know reproductive or geographic isolation affects speciation. |
| 8E | Students know how to analyze fossil evidence with regard to biological diversity, episodic speciation and mass extinction. |
| 8G | Students know how several independent molecular clocks, calibrated against each other and combined with evidence from fossil record can help to estimate how long ago various groups of organisms diverged evolutionarily from one other. |