

The Life Cycle of Butterflies: Goals and Assessment Strategies

Concepts	
Goals	Assessment Strategies
The different stages of a butterfly's life cycle are egg, larva, caterpillar, chrysalis, and adult. Lessons 1–16	Lessons 1, 7, 9, 13, and 16 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations
Caterpillars need food, air, and space to live and grow. Lessons 1–7, and 16	Lessons 1, 3, 7, and 16 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations
The caterpillar forms a chrysalis, and a butterfly emerges from the chrysalis. Lessons 1, 8–9, 13, and 16	Lessons 1, 8, 13, and 16 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations
A butterfly needs food to live, but it does not grow after emerging from the chrysalis. Lessons 1, 9–12, and 16	Lessons 1, 9, 12, and 16 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations
A butterfly lays eggs, which hatch into larvae. Lessons 1, 12, and 15–16	Lessons 1, 12, and 15–16 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations

Skills	
Goals	Assessment Strategies
Observing, describing, and recording growth and change in the larva. Lessons 2–12	Lessons 2, 7–8, and 12 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations

The Life Cycle of Butterflies: Goals and Assessment Strategies (continued)

Goals	Assessment Strategies
Predicting, comparing, and discussing the larva's appearance and change over time. Lessons 2–13	Lessons 2, 7–8, and 13 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations
Communicating observations through drawing and writing. Lessons 2–13	Lessons 2–13 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings
Relating observations of the butterfly's life cycle to students' own growth and change. Lessons 3, 5, 10–11, and 15	Lessons 3, 10, and 15 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations
Extending knowledge of butterflies through reading. Lessons 2–12 and 14	Lessons 2, 7, and 14 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Class discussions ▪ Teacher observations ▪ Observations of free reading materials

Attitudes	
Goals	Assessment Strategies
Developing an interest in studying insects. Lessons 1–14 and 16	Lessons 1, 7, 9, 12, 14, and 16 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations ▪ Observations of free reading materials
Appreciating the needs of living things. Lessons 1–12 and 16	Lessons 1, 7, 9, 12, 14, and 16 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations
Valuing scientific information that has been collected over time. Lessons 1–13 and 16	Lessons 1, 7, 9, 12, 14, and 16 <ul style="list-style-type: none"> ▪ Pre- and post-unit assessments ▪ Record sheets ▪ Drawings ▪ Class discussions ▪ Teacher observations ▪ Student investigations