

Goleta Butterfly Grove (Ellwood Butterfly Grove)

Easily accessible to Goleta and Santa Barbara schools, **Goleta Butterfly Grove** is a delicate resource available for educational presentation of the Monarch butterfly migration and how it culminates with over-winter gathering in preparation for the spring breeding. Butterflies coursing hundreds of miles north for the warm months begin the inter-generational story that brings their third generation off-spring back each winter here at Elwood. While the larger mid-west to Mexico corridor of Monarchs is ever more threatened by pesticides and de-forestation, this western group provides comparisons in geographic forces bearing on one of the last great migrations on the planet.



Historical eucalyptus, local native plants and invasive plants provide lessons in habitat and preservation on land that overlays an important geological fault and a base for exploring the broad geological features of Santa Barbara County from the Channel Islands to the Santa Ynez Range. On the beach we are able to study tides, the coastal zone habitat and the geology of the Monterey formation in the cliffs as it relates to local oil industry and the basin and range visibly evident in this location.

Appropriate for Grades K – 8

Available Field Trip Emphases: *Geology, Ecology (including Watershed and Riparian habitats)*



Led by experienced and enthusiastic Nature Track docents, field trips at Goleta Monarch Butterfly Preserve are designed to be used as a companion to state science standards and provide a real-life experience for students in geology and ecology. Docents can lead students in trips that focus on the appropriate grade level and subject and engage students in exploration of science and nature through hikes, guided discussion, and educational nature games. Nature-based art and other creative projects are also available.

Field Trips at Goleta Butterfly Grove can be used in conjunction with the following California State Standards and Next Generation Science Standards:



Geology Field Trip

Grade	CA Standards	Next Generation
K	Earth Sciences: 3a	Energy: K-PS3.B
2	Earth Sciences: 3a, 3b, 3c	Earth’s Place in the Universe: 2-ESS1.C; Earth’s Systems: 2-ESS2.A, 2-ESS2.B, 2-ESS2.C
4	Earth Sciences: 4a, 4b, 5a, 5b, 5c	Earth’s Place in the Universe: 4-ESS1.C; Earth’s Systems: 4-ESS2.A, 4-ESS2.B; Earth and Human Activity: 4-ESS3.A
5	-	Earth’s Systems: 5-ESS2.A, 5-ESS2.C; Earth and Human Activity: 5-ESS3.C



6	Earth Sciences: 1b, 1d, 1e, 1f, 2a, 2b, 2d; Investigation & Experimentation: 7f, 7g	Standards for 6-8: Earth's Place in the Universe: MS-ESS1.C; Earth's Systems: MS-ESS1.C, MS-ESS2.A, MS-ESS2.B, MS-ESS2.C; Earth and Human Activity: MS-ESS3.A, MS-ESS3.C, MS-ESS3.D
7	Life Sciences: 4a, 4b, 4c, 4d, 4f	See Above
8	-	See Above

Ecology Field Trip

Grade	CA Standards	Next Generation
K	Life Sciences: 2a, 2c	From Molecules to Organisms: K-LS1.C; Earth's Systems: K-ESS2.E, K-ESS3.C; Earth and Human Activity: ESS3.A
1	Life Sciences: 2a, 2b, 2c, 2d, 2e	From Molecules to Organisms: 1-LS1.A, 1-LS1.B; Heredity: 1-LS3.A, 1-LS3.B
2	Life Sciences: 2a, 2b, 2c, 2d, 2e, 2f	Ecosystems: 2-LS2.A; Evolution: 2-LS4.D
3	Life Sciences: 3a, 3b, 3c, 3d, 3e	From Molecules to Organisms: 3-LS1.B; Ecosystems: 3-LS2.D; Heredity: 3-LS3.A, 3-LS3.B; Evolution: 3-LS2.C, 3-LS4.A, 3-LS4.B, 3-LS4.C, 3-LS4.D
4	Life Sciences: 2a, 2b, 2c, 3a, 3b, 3c, 3d	From Molecules to Organisms: 4-LS1.A, 4-LS1.D; Earth's Systems: 4-ESS2.E
5	-	Energy: 5-PS3.D, 5-LS1.C; From Molecules to Organisms: 5-LS1.C;



		Ecosystems: 5-LS2.A, 5-LS2.B
6	Earth Sciences: 5a, 5b, 5c, 5d, 5e	Standards for 6-8: From Molecules to Organisms: MS-LS1.B, MS-LS1.C; Ecosystems: MS-LS2.A, MS-LS2.B, MS-LS2.C, MS-LS4.D; Heredity: MS-LS1.B; Evolution: MS-LS4.C
7	Life Sciences: 2a, 3a, 3e, 5a, 5f	See Above
8	-	See Above

