

The Ocean In A Warming Climate
Workshop, March 21, 2009

Standards Alignment for Lesson Plans

Sea Ice, Glaciers and Sea Level Rise: Learning Through Experimentation

CA State Science Standards:

6th grade 4.a-e

7th grade 7.a-e

8th grade 1.a-f, 8.a-d

High School Chemistry 7a-d, Earth Science 5.a-g,6.a-d

Ocean Literacy Principles and Concepts: 1.d,f, 3.f, 6. e-g

Climate Literacy Principles and Concepts: 4. e,g, 6.a-f

Looking Into Albedo

CA State Science Standards:

K: 1.a, 3.a

1st grade: 1.b, 3. a,b

3rd grade: 1.a

5th grade: 3.a, 4.b

6th grade: 3.a, c, 4.b

High School: Earth Science 4.b, c, 5.c, d, 6.a, b, 8.a

Ocean Literacy Principles and Concepts: 3 e, f, 4a, 6e

Climate Literacy Principles and Concepts: 1b – d, 2 a, e, 5 e – g, 6b-d,

Heat Capacity - Temperature Changes: Atmosphere and Ocean

CA State Science Standards:

1st grade: 1.b, 3. a,b

3rd grade: 1.a

5th grade: 3.a, 4.b

6th grade: 3.a, c, 4.b

High School: Earth Science 4.b, c, 5.c, d, 6.a, b, 8.a

Ocean Literacy Principles and Concepts: 3 e, f, 4a, 6e

Climate Literacy Principles and Concepts: 4a,

Coral Cores: Coral Timelines

CA State Science Standards:

2nd grade 2.d, e

3rd grade 3.b-d

4th grade 2.a

5th grade 2.a

6th grade 5.a,b,e

High School: Earth Science 5.d, 6.b,c, Ecology 6.a-g,

Ocean Literacy Principles and Concepts: 5.d,f, 6.e, 7.b

Climate Literacy Principles and Concepts: 1.b,c,f, 2.c, 4.g, 6.b,c

pH, CO₂ and Ocean Acidification

CA State Science Standards:

1st grade: 2.a,b

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3rd grade: 1.e,g,l, 3.a,c,d

4th grade: 2.a, 3.b

5th grade: 1.a,b,g, 2.b,f

6th grade 5.a,c,e

7th grade: 3.c,e, 4.e

8th grade 3.e,f, 5.e. 6.a

High School: Biogeochemical cycles 7.a, Ecology 6.d

Ocean Literacy Principles and Concepts: 3 e, f, 4a, 6e

Climate Literacy Principles and Concepts: 1b – d, 2 a, e, 4 d,

Ocean Acidification and Its Effects on Organisms

CA State Science Standards:

6th grade 5.a,c,e

7th grade: 3.c,e, 4.e

8th grade 3.e,f, 5.e. 6.a

High School: Biogeochemical cycles 7.a, Ecology 6.d

Ocean Literacy Principles and Concepts: 3 e, f, 4a, 6e

Climate Literacy Principles and Concepts: 1b – d, 2 a, e, 4 d,