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EDUCATOR'S GUIDE

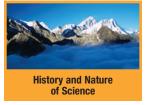
CONTENT TOPIC AREAS











THE EARTH AND THE SUN

| NATIONAL SCIENCE EDUCATION STANDARDS | | TASK NUMBER BY GRADE | | |
|--------------------------------------|--|----------------------------|----------------------------|-----------------------------|
| Topic Area | Develop Understanding Of: | Grades K-2 (Pg. 17) | Grades 3-6 (Pg. 18) | Grades 7-12 (Pg. 19) |
| | Understandings about scientific inquiry | Tasks 5 & 6 | Tasks 1-3 & 5-8 | Tasks 1-3 |
| | Abilities necessary to do scientific inquiry | Task 5 | Tasks 1-3 & 5-8 | Tasks 1-3 |
| | Organisms and environments | Tasks 6 & 7 | | |
| | Objects in the sky | Tasks 1-5 | | |
| | Changes in earth and sky | Tasks 1-5 | | |
| | Structure of the earth system | | Tasks 1-8 | |
| | Earth in the solar system | | Tasks 1-8 | |
| | Energy in the earth system | | | Tasks 1-3 |
| | Characteristics and changes in populations | Tasks 6 & 7 | | |
| | Science and technology in society | | Task 6 | |
| | Environmental quality | | | Tasks 3-5 |
| | Natural and human-induced hazards | | | Tasks 3-5 |
| | Nature of scientific knowledge | | | Tasks 1-3 |

THE GREAT MIGRATIONS

| NATIONAL SCIENCE EDUCATION STANDARDS | | TASK NUMBER BY GRADE | | |
|--|--|----------------------------|----------------------------|----------------------|
| Topic Area | Develop Understanding Of: | Grades K-2 (Pg. 26) | Grades 3-6 (Pg. 26) | Grades 7-12 (Pg. 27) |
| | Understandings about scientific inquiry | Tasks 2 & 3 | Tasks 1-3 | Tasks 1-4 |
| | Abilities necessary to do scientific inquiry | Task 2 & 3 | Tasks 1-3 | Tasks 2-4 |
| | Structure and function in living systems | | Tasks 1-3 | |
| | Regulation and behavior | | Tasks 1-4 | |
| | Populations and ecosystems | | Tasks 1-3 | |
| | Diversity and adaptations of organisms | | Tasks 1-4 | |
| | Interdependence of organisms | | | Tasks 1-4 |
| | Matter, energy, and organization in living systems | | | Tasks 1-4 |
| | Behavior of organisms | | | Tasks 1-4 |
| | Changes in earth and sky | Tasks 1-3 | | |
| | Characteristics and changes in populations | Task 3 | | |
| | Changes in environment | Task 3 | | |
| | Populations, resources, and environments | | Task 3 | |
| | Natural hazards | | Task 3 | |
| | Risks and benefits | | Task 3 | |
| | Natural and human-induced hazards | | | Task 3 |
| No. of the last of | Nature of scientific knowledge | | | Tasks 2 & 3 |

ADAPTATION AND HABITAT

| NATIONAL SCIENCE EDUCATION STANDARDS | | TASK NUMBER BY GRADE | | |
|--------------------------------------|--|----------------------|---------------------------|---------------------|
| Topic Area | Develop Understanding Of: | Grades K-2 (Pg.35) | Grades 3-6 (Pg.36) | Grades 7-12 (Pg.37) |
| | Understandings about scientific inquiry | Tasks 1-3 | Tasks 1-3 & 7-8 | Tasks 1 & 2 |
| | Abilities necessary to do scientific inquiry | Tasks 1-3 | Tasks 1-3 & 7-8 | Tasks 1 & 2 |
| | Characteristics of organisms | Tasks 1-3 | | |
| | Organisms and environments | Tasks 1-3 | | |
| | Structure and function in living systems | | Tasks 1-5 & 7-8 | |
| | Regulation and behavior | | Tasks 1-5 & 7-8 | |
| | Populations and ecosystems | | Tasks 1-7 | |
| | Diversity and adaptations of organisms | | Tasks 1-8 | |
| | Interdependence of organisms | | | Tasks 1 & 2 |
| | Matter, energy, and organization in living systems | | | Tasks 1 & 2 |
| | Behavior of organisms | | | Tasks 1 & 2 |
| | Changes in environment | Task 3 | | |
| | Natural and human-induced hazards | | | Tasks 1 & 2 |
| | Environmental quality | | | Tasks 1 & 2 |
| | Nature of scientific knowledge | | Tasks 7 & 8 | |

PREDATOR AND PREY

| NATIONAL SCIENCE EDUCATION STANDARDS | | TASK NUMBER BY GRADE | | |
|--------------------------------------|--|----------------------|--------------------|----------------------------|
| Topic Area | Develop Understanding Of: | Grades K-2 (Pg.44) | Grades 3-6 (Pg.44) | Grades 7-12 (Pg.45) |
| | Understandings about scientific inquiry | Tasks 1 & 2 | Tasks 1 & 3 | Task 3 & 5-6 |
| | Abilities necessary to do scientific inquiry | Task 2 | Task 1 | Task 3 & 5-6 |
| | Characteristics of organisms | Tasks 1 & 2 | | |
| | Organisms and environments | Task 2 | | |
| | Structure and function in living systems | | Tasks 1-4 | |
| | Regulation and behavior | | Tasks 1-4 | |
| | Populations and ecosystems | | Tasks 1-4 | |
| | Diversity and adaptations of organisms | | Task 3 | |
| | Interdependence of organisms | | | Tasks 1-6 |
| | Matter, energy, and organization in living systems | | | Tasks 1-6 |
| | Behavior of organisms | | | Tasks 1-6 |
| | Natural and human-induced hazards | | | Task 6 |
| | Environmental quality | | | Task 6 |

LIFE CYCLES

| NATIONAL SCIENCE EDUCATION STANDARDS | | TASK NUMBER BY GRADE | | |
|--------------------------------------|--|----------------------|----------------------------|-----------------------------|
| Topic Area | Develop Understanding Of: | Grades K-2 (Pg. 53) | Grades 3-6 (Pg. 54) | Grades 7-12 (Pg. 55) |
| | Understandings about scientific inquiry | Tasks 2-3 & 6-7 | Tasks 2-5 | Task 1 & 3-4 |
| | Abilities necessary to do scientific inquiry | Tasks 2-3 & 6-7 | Tasks 2-5 | Task 1 & 3-4 |
| | Characteristics of organisms | Tasks 1-7 | | |
| | Life cycles of organisms | Tasks 2-3 & 5-7 | | |
| | Organisms and environments | Tasks 1-5 | | |
| | Structure and function in living systems | | Tasks 1-6 | |
| | Reproduction and heredity | | Tasks 1-6 | |
| | Regulation and behavior | | Tasks 1-5 | |
| | Populations and ecosystems | | Task 2 | |
| | Diversity and adaptations of organisms | | Task 1 | |
| | Biological evolution | | | Task 1 |
| | Interdependence of organisms | | | Tasks 1-4 |
| | Behavior of organisms | | | Tasks 1-4 |
| | Natural and human-induced hazards | | | Tasks 1-4 |
| | Environmental quality | | | Tasks 3 & 4 |