

# Program of Inquiry AIA 2015-2016



Age	An inquiry into: Who We Are 	An inquiry into: Where We Are in Place and Time 	An inquiry into: How We Express Ourselves 	An inquiry into: How the World Works 	An inquiry into: How We Organize Ourselves 	An inquiry into: Sharing the Planet 
	<p>An inquiry into the nature of the self; beliefs and values; personal, physical, mental, social and spiritual health; human relationships including families, friends, communities and cultures; rights and responsibilities; what it means to be human.</p>	<p>An inquiry into orientation in place and time; personal histories; homes and journeys; the discoveries, explorations and migrations of humankind; the relationships between and the interconnectedness of individuals and civilizations, from local and global perspectives.</p>	<p>An inquiry into the ways in which we discover and express Ideas, feelings, nature, culture, beliefs and values; the ways in which we reflect on, extend and enjoy our creativity; our appreciation of the aesthetic.</p>	<p>An inquiry into the natural world and its laws; the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment.</p>	<p>An inquiry into the interconnectedness of human-made systems and communities; the structure and function of organizations; societal decision-making; economic activities and their impact on humankind and the environment.</p>	<p>An inquiry into rights and responsibilities in the struggle to share finite resources with other people and with other living things; communities and the relationships within and between them; access to equal opportunities; peace and conflict resolution.</p>
<p>3 to 4 years PS PRE K</p>	<p><b>Central Idea:</b> We may be the same and different.</p> <p><b>Key Concepts:</b> form, reflection, connection</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Our physical characteristics</li> <li>• Our interests</li> <li>• Our skills</li> </ul> <p>Our similarities and differences</p>		<p><b>Central Idea:</b> Stories inform and provoke us, and give us pleasure.</p> <p><b>Key Concepts:</b> connection, perspective, reflection</p> <p><b>Related Concept:</b> communication</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• What a story is</li> <li>• What stories convey</li> <li>• How stories are created and shared</li> <li>• Feelings and emotions that stories evoke</li> </ul>	<p><b>Central Idea</b> Understand how the natural elements help us to know more about our world.</p> <p><b>Key Concepts:</b> form, function, connection</p> <p><b>Related Concept:</b> properties, transformation</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• What the natural elements are (air, earth, water)</li> <li>• Characteristics of natural elements</li> <li>• Importance of natural elements</li> <li>• How people use the natural elements (uses and preservation)</li> </ul>		<p><b>Central Idea:</b> Relationships exist between animals and people.</p> <p><b>Key Concepts:</b> function, connection, responsibility</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• The roles animals play in people's lives</li> <li>• How animals and people interact</li> <li>• Our responsibility towards animals</li> </ul>

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<p>4 to 5 years  MS K1</p>	<p>Central Idea: Friendships enrich our lives and require nurturing in order to develop. Key Concepts: function, connection, responsibility Lines of Inquiry:  <ul style="list-style-type: none"> <li>• How friends are made and kept</li> <li>• Why friends are needed</li> <li>• Characteristics that develop a healthy friendship</li> </ul> </p>		<p>Central Idea: Play allows us to explore and express ourselves in different ways. Key Concepts: causation, perspective, reflection Related Concepts: rehearsal, performance, script writing Lines of Inquiry:  <ul style="list-style-type: none"> <li>• What is play</li> <li>• Our responsibilities to play</li> <li>• How reflecting on our play helps us to improve</li> <li>• How we share our Ideas and interpretations with others</li> </ul> </p>	<p>Central Idea: Food changes in many ways. Key Concepts: function, change, connection Lines of Inquiry:  <ul style="list-style-type: none"> <li>• Where food comes from</li> <li>• How food changes</li> <li>• How food is prepared in different ways.</li> </ul> </p>		<p>Central Idea: Plants are a life-sustaining resource for us and for other living things. Key Concepts: form, function, responsibility, connection Lines of Inquiry:  <ul style="list-style-type: none"> <li>• What plants provide for us and for other living things.</li> <li>• The structure of a plant – plant cycle.</li> <li>• Caring for plant life</li> </ul> </p>

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5 to 6 years GS K2	<p><b>Central Idea:</b> Making balanced choices about daily routines enables us to have a healthy lifestyle.</p> <p><b>Key Concepts:</b> function, causation, reflection, responsibility</p> <p><b>Related Concepts:</b> balance, well-being</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Daily habits and routines (hygiene, sleep, play, eating)</li> <li>• Balanced choices</li> <li>• Consequences of choices</li> </ul>	<p><b>Central Idea:</b> Documenting personal histories allows us to reflect on and celebrate who we are and where we come from.</p> <p><b>Key Concepts:</b> form, connection, perspective</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Personal experiences from birth to present</li> <li>• Personal change from birth to present</li> <li>• Reflecting on who is/has been important in our lives.</li> </ul>	<p><b>Central Idea:</b> Celebrations may be influenced by cultures.</p> <p><b>Key Concepts:</b> function, perspective connection</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Types of celebrations</li> <li>• How people celebrate</li> <li>• Why people celebrate</li> </ul>	<p><b>Central Idea:</b> Different factors affect balance and motion</p> <p><b>Key Concepts:</b> function, causation, change</p> <p><b>Related Concepts:</b> equilibrium, mechanics</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• How things move</li> <li>• How things balance</li> <li>• How we can affect the way things move and or balance</li> </ul>	<p><b>Central Idea:</b> School communities may be enriched by their members and the different roles they bring.</p> <p><b>Key Concepts:</b> connections, perspective</p> <p><b>Related Concepts:</b> continuity, diversity</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• What is a school</li> <li>• People within the school community</li> <li>• The personal stories of school community members</li> </ul>	<p><b>Central Idea:</b> All living things go through a process of change.</p> <p><b>Key Concepts:</b> change, connection, function</p> <p><b>Related Concepts:</b> cycles, transformation</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Life cycles</li> <li>• How living things change over their life time</li> <li>• Developmental stages of various living things</li> </ul>

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<p>6 to 7 years P1 G1</p>	<p><b>Central Idea:</b> Safety is a shared responsibility. <b>Key Concepts:</b> function, responsibility, reflection <b>Related Concepts:</b> behavior, safety, relationships <b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• What helps us stay safe</li> <li>• How others help us stay safe</li> <li>• How I am responsible for making safe choices</li> </ul>	<p><b>Central Idea:</b> Cities have special characteristics that make them unique. <b>Key Concepts:</b> function, connection <b>Related Concepts:</b> cooperation, ownership, perspective <b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• The physical characteristics of Alexandria</li> <li>• The heritage of where we live</li> <li>• The places and things you would like a visitor to see</li> <li>• Similarities and differences between Alexandria and other cities</li> </ul>	<p><b>Central Idea:</b> We learn about ourselves and others through different emotions. <b>Key Concepts:</b> form, change, reflection <b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• Different emotions and how we express them</li> <li>• Our responses to emotions</li> <li>• How we deal with emotions</li> </ul>	<p><b>Central Idea:</b> Understanding the properties of air allows people to make practical applications. <b>Key Concepts:</b> function, causation, connection <b>Related Concepts:</b> force, energy <b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• The evidence of the existence of air</li> <li>• What air can do and how we use it</li> <li>• The relationship between air, light and sound</li> </ul>	<p><b>Central Idea:</b> Systems of trade and exchange make products available. <b>Key Concepts:</b> function, causation, connection <b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Trading and exchanging affects our lives</li> <li>• Products available to us</li> <li>• Journeys our products make</li> <li>• The interconnectedness within/between systems</li> </ul>	<p><b>Central Idea:</b> Life within an ecosystem is interdependent <b>Key Concepts:</b> function, connection, responsibility <b>Related Concepts:</b> behavior, adaptation, systems <b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• What an ecosystem is</li> <li>• How an ecosystem works</li> <li>• The effects of removing an element from an ecosystem</li> <li>• Our role in protecting ecosystems</li> </ul>

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7 to 8 years	<p><b>Central Idea:</b> <i>By exploring our environment with our five senses, we are able to better understand our world.</i></p> <p><b>Key Concepts:</b> form, function, connection</p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>The five senses and their uses.</li> <li>Taking care of our senses</li> <li>Understanding disabilities related to our senses</li> <li>The role senses play in understanding our environment</li> </ul>	<p><b>Central Idea:</b> <i>The development of global perspectives may help us understand our place in the world in relation to others.</i></p> <p><b>Key Concepts:</b> connection, perspective, responsibility</p> <p><b>Related Concepts:</b> context, location, orientation</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>How we represent place/ the world/ Egypt</li> <li>Representations of Egypt through time</li> <li>The relationship of our location to other parts of the world</li> </ul>	<p><b>Central Idea:</b> <i>Through the arts people use different forms of expression to convey their uniqueness as human beings.</i></p> <p><b>Key Concepts:</b> function, perspective, reflection</p> <p><b>Related Concepts:</b> perception, self-expression</p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>The diverse ways in which people express themselves</li> <li>How everyone can express their uniqueness through the arts</li> <li>The role of art in culture and society</li> </ul>	<p><b>Central Idea:</b> <i>Simple machines transfer force and affect the way humans do work.</i></p> <p><b>Key Concepts:</b> causation, function, connection</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>How simple machines work</li> <li>The scientific principles of work and force</li> <li>How simple machines affect our lives</li> </ul>	<p><b>Central Idea:</b> <i>In a workplace people share responsibility towards a common purpose.</i></p> <p><b>Key Concepts:</b> function, connection, responsibility</p> <p><b>Related Concepts:</b> cooperation, employment</p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>Purpose of a workplace</li> <li>Interconnectedness of people in a workplace and the community</li> <li>Impact of people working together to achieve a common purpose</li> </ul>	<p><b>Central Idea:</b> <i>The seas and oceans are a resource for all life on earth.</i></p> <p><b>Key Concepts:</b> connection, perspective, responsibility,</p> <p><b>Related Concepts:</b> conservation, interconnectedness</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>Features of the world's seas and oceans</li> <li>The role of seas and oceans to support life</li> <li>Our responsibility to conserve our seas and oceans</li> </ul>

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8 to 9 years G3	<p><b>Central Idea:</b> Rights and responsibilities impact on our lives.</p> <p><b>Key Concepts:</b> function, responsibility, perspective</p> <p><b>Related Concepts:</b> organization, governments, conflict</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Our rights and responsibilities</li> <li>• The rights and responsibilities of other children (comparative study)</li> <li>• The connection between rights and responsibilities</li> <li>• The impact of rights being denied and met</li> </ul>	<p><b>Central Idea:</b> Events in our history shape our environment and lives</p> <p><b>Key Concepts:</b> perspective, connection, reflection</p> <p><b>Related Concepts:</b> chronology, history, tradition</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Understanding family ancestry (Grade 3)</li> <li>• The influence of Egyptian history on the world today (Grade 4)</li> <li>• Artifacts, events and rituals have meaning in a society</li> <li>• Changes over time</li> </ul>	<p><b>Central Idea:</b> Cultures use different forms of visual art to express feelings and ideas</p> <p><b>Key Concepts:</b> form, function, connection, perspective</p> <p><b>Related Concepts:</b> culture, media, pattern</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Different forms of visual art expression</li> <li>• How visual art is expressed in our culture</li> <li>• The function/role of artistic expression within a culture</li> <li>• Ways that artistic expression can be interpreted</li> </ul>	<p><b>Central Idea:</b> Weather affects life on earth.</p> <p><b>Key Concepts:</b> connection, causation, form</p> <p><b>Related Concepts:</b> climate, systems, pollution,</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• What causes different kinds of weather</li> <li>• How weather affects life on earth</li> <li>• How human actions might affect the weather</li> </ul>	<p><b>Central Idea:</b> NGO's within a community provide services designed to meet people's needs.</p> <p><b>Key Concepts:</b> function, form, perspective, responsibility</p> <p><b>Related Concept:</b> networks</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Reasons NGO's exist in our community</li> <li>• Services NGO's provide to support our community</li> <li>• Services International organizations provide to our community and to other countries</li> <li>• Action we can take to support our community</li> </ul>	<p><b>Central Idea:</b> The importance of water and its effect on human survival.</p> <p><b>Key Concepts:</b> function, responsibility, connection</p> <p><b>Related Concepts:</b> conservation, equity, processes</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Sources of water and how water is used</li> <li>• What happens to water after we have used it</li> <li>• Distribution and availability of usable water</li> <li>• Responsibilities regarding water</li> </ul>

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9 to 10 years G4	<p><b>Central Idea:</b> <i>Our bodies allow us to be functional human beings and productive citizens.</i></p> <p><b>Key Concepts:</b> <i>function, responsibility, connection</i></p> <p><b>Related Concepts:</b> <i>nutrition, exercise, growth,</i></p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• <i>Body systems</i></li> <li>• <i>How our body systems work together</i></li> <li>• <i>How to take care of our bodies</i></li> </ul>	<p><b>Central Idea:</b> <i>Human migration is a response to challenges, risks and opportunities.</i></p> <p><b>Key Concepts:</b> <i>causation, change, perspective</i></p> <p><b>Related Concepts:</b> <i>population, settlement</i></p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• <i>The reasons why people migrate</i></li> <li>• <i>Migration throughout history</i></li> <li>• <i>Effects of migration on communities, cultures and individuals</i></li> </ul>	<p><b>Central Idea:</b> <i>Choices of role models reflect the characteristics that societies and individuals value.</i></p> <p><b>Key Concepts:</b> <i>causation, perspective, reflection</i></p> <p><b>Related Concepts:</b> <i>self-fulfillment, influence</i></p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• <i>Role models and why we value them</i></li> <li>• <i>Why we should develop our own gifts, talents and interests</i></li> <li>• <i>How personal strengths can be applied to help others</i></li> </ul>	<p><b>Central Idea:</b> <i>The evolution of inventions can change the way we live.</i></p> <p><b>Key Concepts:</b> <i>function, change, connection</i></p> <p><b>Related Concepts:</b> <i>mechanics, technological advances, ecology</i></p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• <i>Inventions throughout human history</i></li> <li>• <i>How inventions work</i></li> <li>• <i>The process and purpose of inventing</i></li> <li>• <i>The positive and negative impacts of human inventions</i></li> </ul>	<p><b>Central Idea:</b> <i>The choices we make as consumers may be affected by the marketing of goods and services.</i></p> <p><b>Key Concepts:</b> <i>form, reflection, connection</i></p> <p><b>Related Concepts:</b></p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• <i>The needs and wants of consumers force choices to be made</i></li> <li>• <i>How advertising affects consumer choices</i></li> <li>• <i>Marketing process</i></li> </ul>	<p><b>Central Idea:</b> <i>Energy exists in different forms and it is changed, stored, and used in different ways</i></p> <p><b>Key Concepts:</b> <i>form, function, connection</i></p> <p><b>Related Concepts:</b> <i>conservation, transformation</i></p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• <i>Forms of Energy</i></li> <li>• <i>The storage and transformation of energy</i></li> <li>• <i>Conservation of energy</i></li> <li>• <i>Renewable and sustainable energy</i></li> </ul>

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10 to 11 years P5 G5	<p><b>Central Idea</b> Finding peaceful solutions to conflict leads to a better quality of human life.</p> <p><b>Key Concepts:</b> causation, perspective, responsibility <b>Related Concepts:</b> conflict, diversity, justice <b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Causes of conflict</li> <li>• Conflict resolution and management</li> <li>• Living and working together peacefully</li> </ul>	<p><b>Central Idea</b> Past civilizations shape present day systems and technologies.</p> <p><b>Key Concepts:</b> function, connection, perspective <b>Related Concepts:</b> continuity, progress, <b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• Aspects of past civilizations that have survived</li> <li>• Reasons these systems and technologies developed</li> <li>• Why modern societies continue to use adaptations of these systems and technologies</li> </ul>	<p><b>Central Idea</b> Culture influences our beliefs and lives.</p> <p><b>Key Concepts:</b> Perspective, reflection, function <b>Related Concepts:</b> acceptance, diversity, values, culture <b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• Our own culture and beliefs</li> <li>• What influences beliefs</li> <li>• How culture and beliefs are similar and different</li> <li>• How culture and beliefs influence the way we live</li> </ul>	<p><b>Central Idea:</b> Everything in our world is composed of matter.</p> <p><b>Key Concepts:</b> form, change, reflection <b>Related Concepts:</b> interdependence <b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• The properties of matter</li> <li>• Processes that cause matter to change</li> <li>• How we use these understandings</li> <li>• The importance of scientific inquiry</li> </ul>	<p><b>Central Idea:</b> Government systems influence the lives of citizens.</p> <p><b>Key Concepts:</b> function, perspective, responsibility <b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• How government systems function</li> <li>• Decision making process</li> <li>• The impact of government on citizens</li> </ul>	EXHIBITION

# Program of Inquiry AIA 2015-2016



Age	An inquiry into: Who We Are 	An inquiry into: Where We Are in Place and Time 	An inquiry into: How We Express Ourselves 	An inquiry into: How the World Works 	An inquiry into: How We Organize Ourselves 	An inquiry into: Sharing the Planet 
	<i>An inquiry into the nature of the self; beliefs and values; personal, physical, mental, social and spiritual health; human relationships including families, friends, communities and cultures; rights and responsibilities; what it means to be human.</i>	<i>An inquiry into orientation in place and time; personal histories; homes and journeys; the discoveries, explorations and migrations of humankind; the relationships between and the interconnectedness of individuals and civilizations, from local and global perspectives.</i>	<i>An inquiry into the ways in which we discover and express Ideas, feelings, nature, culture, beliefs and values; the ways in which we reflect on, extend and enjoy our creativity; our appreciation of the aesthetic.</i>	<i>An inquiry into the natural world and its laws; the interaction between the natural world (physical and biological) and human societies; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment.</i>	<i>An inquiry into the interconnectedness of human-made systems and communities; the structure and function of organizations; societal decision-making; economic activities and their impact on humankind and the environment.</i>	<i>An inquiry into rights and responsibilities in the struggle to share finite resources with other people and with other living things; communities and the relationships within and between them; access to equal opportunities; peace and conflict resolution.</i>
8 to 10 years P3/4	<p><b>Central Idea:</b> <i>Our bodies allow us to be functional human beings and productive citizens.</i></p> <p><b>Key Concepts:</b> function, responsibility, connection</p> <p><b>Related Concepts:</b> nutrition, exercise, growth,</p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• Body systems</li> <li>• How our body systems work together</li> <li>• How to take care of our bodies</li> </ul>	<p><b>Central Idea:</b> <i>Human migration is a response to challenges, risks and opportunities.</i></p> <p><b>Key Concepts:</b> causation, change, perspective</p> <p><b>Related Concepts:</b> population, settlement</p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• The reasons why people migrate</li> <li>• Migration throughout history</li> <li>• Effects of migration on communities, cultures and individuals</li> </ul>	<p><b>Central Idea:</b> <i>Choices of role models reflect the characteristics that societies and individuals value.</i></p> <p><b>Key Concepts:</b> causation, perspective, reflection</p> <p><b>Related Concepts:</b> self-fulfillment, influence</p> <p><b>Lines of Inquiry</b></p> <ul style="list-style-type: none"> <li>• Role models and why we value them</li> <li>• Why we should develop our own gifts, talents and interests</li> <li>• How personal strengths can be applied to help others</li> </ul>	<p><b>Central Idea:</b> <i>Weather affects life on earth.</i></p> <p><b>Key Concepts:</b> connection, causation, form</p> <p><b>Related Concepts:</b> climate, systems, pollution,</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• What causes different kinds of weather</li> <li>• How weather affects life on earth</li> <li>• How human actions might affect the weather</li> </ul>	<p><b>Central Idea:</b> <i>NGO's within a community provide services designed to meet people's needs.</i></p> <p><b>Key Concepts:</b> function, form, perspective, responsibility</p> <p><b>Related Concept:</b> networks</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Reasons NGO's exist in our community</li> <li>• Services NGO's provide to support our community</li> <li>• Services International organizations provide to our community and to other countries</li> <li>• Action we can take to support our community</li> </ul>	<p><b>Central Idea:</b> <i>The importance of water and its effect on human survival.</i></p> <p><b>Key Concepts:</b> function, responsibility, connection</p> <p><b>Related Concepts:</b> conservation, equity, processes</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Sources of water and how water is used</li> <li>• What happens to water after we have used it</li> <li>• Distribution and availability of usable water</li> <li>• Responsibilities regarding water</li> </ul>