

Geography of East Asia

A rationale for the proposed unit: The 3-day lesson on *Geography of East Asia*, contains a blended cross-curricular element from student's 8th grade History and 8th grade science. Students would already have prior knowledge of the geography of East Asian countries from their History class and will be applying it to their science lesson on the changes of the East Asia due to climate change, global warming, human impact, etc.

Key Content Standard(s):

ESS3.A: Natural Resources

- Resource availability has guided the development of human society. (HS-ESS3-1)
- All forms of energy production and other resource extraction have associated economic, social, environmental, and geopolitical costs and risks as well as benefits. New technologies and social regulations can change the balance of these factors. (HS-ESS3-2)

ESS3.C: Human Impacts on Earth Systems

- The sustainability of human societies and the biodiversity that supports them requires responsible management of natural resources. (HS-ESS3-3)
- Scientists and engineers can make major contributions by developing technologies that produce less pollution and waste and that preclude ecosystem degradation. (HS-ESS3-4)

ESS3.D: Global Climate Change

- Through computer simulations and other studies, important discoveries are still being made about how the ocean, the atmosphere, and the biosphere interact and are modified in response to human activities. (HS-ESS3-6)

Lesson Objective: Students will understand the changes of the geography of East Asia due to climate change, global warming, human impact, etc. Students will make a comparison on how the lands changed (compare the geography of East Asia in the 1600s with the geography of East Asia today) and identify the advantages and disadvantages.

Essential question:

- Day 1: Where are the major physical features and nations of Eastern Asia located?
- Day 2: How has pollution affected Eastern Asia?
- Day 3: How do climate, location, and physical features impact the people of Eastern Asia?

Lesson Resources/Materials

Powerpoint slides, Ipads, Google Earth website, Science textbook

Day 1 Time: 50 minutes

Teacher	Students
<p>1. View a youtube video (15 mins) on the geography of East Asia then and today</p> <p>https://www.youtube.com/watch?v=Yn2EdehBC9I</p> <p>2. Pair students with a partner to debrief on the video. Will use a graphic organizer to research on the following questions.</p> <ul style="list-style-type: none">• What differences do you notice between the lands, before and after?	<p>Watch short clips of the video.</p> <p>Student pair work.</p>

<p>3. A whole class share out on what students have researched. (Use the board/projector to draw a class set graphic organizer)</p> <p>4. Review of Geography of Eastern Asia (PPT)</p> <p>Assessment: Southern & Eastern Asia Physical Features and Countries Activator</p>	<p>Volunteers will come up to the board to write their answers</p> <p>Students will take notes</p>
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Day 2: 50 minutes

<p>Teacher</p> <p>1. Lecture on Global warming, human impact on earth, natural disasters etc. (vocab cards on the definition of scientific terms)</p> <p>Essential question: How has pollution affected Eastern Asia?</p> <p>2. Students will work in groups to fill out a graphic organizer on Eastern Asia's environmental issues. (Comparison in Japan, Korea, and China)</p>	<p>Students</p> <p>Will be reading short passages from their science textbook</p> <p>Group work</p>
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Day 3: 50 minutes

<p>Teacher</p> <p>1. Students will use Google Earth to understand that humans, their society, and the environment affect each other (Play simulation with the class)</p> <p>2. Resources to be given: - Asia's population density map - Asia's location, climate, and natural resources map</p>	<p>Students</p> <p>Watch the simulation and play with it on their individual Ipads</p>
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3. After playing with the simulation, students will be given a worksheet: Asia's Location, Climate, and Resources Summarizer, to answer on their own

Answer worksheet individually