GLOBAL COMPETENCE MATRIX FOR SCIENCE

INVESTIGATE THE WORLD Students use science to Students recognize their own Students communicate about Students use their scientific investigate the world. and others' perspectives science effectively with knowledge and skills to through the study of science. diverse audiences around the translate their ideas and world. findings into actions that improve conditions. Students: Students: Students: Students: Identify issues and frame Recognize and express Recognize and express Identify and create opporinvestigable questions of their own perspective how diverse audiences tunities in which scientific local, regional, or global on situations, events. may interpret differently analysis or inquiry can significance that call for issues, or phenomena, and/or make different a scientific approach or and determine how that assumptions about the orative action to improve emerge from science. perspective along with same scientific informaconditions. their entire understanding tion and how that affects Use a variety of domestic of the world is influenced

questions. Design and conduct a scientific inquiry to collect and analyze data, construct plausible and coherent conclusions, and/or raise questions for further

globally significant study.

and international sources

dence to address globally

significant researchable

to identify and weigh

relevant scientific evi-

- Interpret and apply the results of a scientific inquiry to develop and defend an argument that considers multiple perspectives about a globally significant issue.
- Examine scientific ways of knowing and perspectives about science of other people, groups, and schools of thought, and identify the influences on those perspectives.

by science.

- Explain how cultural interactions influence the development of scientific knowledge.
- Explore and describe the consequences of differential access to scientific knowledge and to the potential benefits of that knowledge.

- communication and collaboration.
- Use varying scientific practices, behaviors, and strategies to verbally and non-verbally communicate scientific information effectively with diverse audiences, including the international scientific community.
- Select and use appropriate technology and media to communicate about science and share data with experts and peers around the world.
- Reflect on how effective communication affects scientific understanding and international collaboration in an interdependent world

- enable personal or collab-
- Assess options, plan actions, and design solutions based on scientific evidence and the potential for impact, taking into account previous approaches, varied perspectives and potential consequences
- Act, personally or collaboratively, in creative and ethical ways to implement scientifically-based solutions that contribute to sustainable improvements, and assess the impact of the action.
- Reflect on how scientific knowledge and skills contribute to their capacity to advocate for improvement locally, regionally, or globally.

Global Competence is the capacity and disposition to understand and act on issues of global significance. The global competence matrices help explain Global Competence and how to apply it. They were created as part of the Council of Chief State School Officers' EdSteps Project, in partnership with the Asia Society Partnership for Global Learning.









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