



INVESTIGATE THE WORLD

What is the evidence that the student uses scientific procedures and disciplines to investigate natural and/or human global phenomena?

SCI6-8.INV1.QUSTN

- I can identify a global science issue. This means that I can locate and record a science issue that affects the world.
- I can formulate a question about a global science issue. This means that I can create a question about a global issue for which I do not know the answer, but which I think can be tested or researched.
- I can develop a general hypothesis or research thesis. This means I can think of a possible answer to my question that can be researched or tested scientifically to determine if my answer is supported by data.

SCI6-8.INV2.SOURC

- I can gather information to support a hypothesis or research thesis. This means that I can locate at least three secondary sources to support my hypothesis or thesis.
- I can compare sources. This means that I can describe the similarities and differences in my sources. It also means that I can explain the differences that may eliminate a source as support for my hypothesis or thesis due to opposing conclusions.
- I can analyze the information provided by each source. This means that I can examine and describe the important elements of ideas presented in the sources in detail.
- I can use sources to partially support my hypothesis or thesis. This means that I can support at least some of the contentions of my hypothesis or thesis.

SCI6-8.INV3.MODEL

- I can identify an existing theory and/or model related to my hypothesis. This means that I can locate an existing theory and/or scientific model that relates to my idea.
- I can begin to evaluate the credibility of an existing theory and/or model related to my hypothesis. This means that I can describe some details about an existing theory and/or scientific model and how it relates to my idea.
- I can identify limited evidence to support or refute my hypothesis or thesis. This means that I can find a few examples in an existing model that either support or oppose my idea.

SCI6-8.INV4.XPRMT

- I can design an experiment that is related to the problem. This means that I can describe an experiment that attempts to answer my question, but may not fully test my hypothesis. It also means that the experiment is designed to focus on the variable(s) being tested or researched.

RECOGNIZE PERSPECTIVES

What is the evidence that the student interprets and discusses scientific data in the context of complex global systems?

SCI6-8.PERS1.CNTXT

- I can identify a context to explain a global science issue. This means that I can locate and describe a situation affecting a local or global science issue.
- I can mention an alternate view to explain a local or global science issue. This means that I can identify another point of view on the issue.

SCI6-8.PERS2.DATA

- I can find data related to my hypothesis or research thesis. This means that I can locate or produce data that relates to my hypothesis or thesis.
- I can identify data patterns and relationships in data. This means that I can apply some basic mathematical or statistical techniques to the data to identify possible sources of error or other data inconsistencies.
- I can draw conclusions related to my hypothesis. This means that I can describe conclusions about my hypothesis or thesis.

SCI6-8.PERS3.QUSTN

- I can form new questions based on my research results. This means that I can write at least two relevant questions on local or global science issues that are brought up by my experiment or research. It also means that answers to these questions will extend understanding of the issue.

COMMUNICATE IDEAS

What is the evidence that the student understands and discusses global implications of scientific ideas, research, or inquiry results, and offers personal reflections?

- SCI6-8.COMM1.PRCDR**
- I can describe experimental and/or research procedures. This means that I can describe the process I used in my experiment or research. It also means that my description is mostly complete, so that someone else would understand the experiment or research.
 - I can use a bibliographic format that is consistent. This means that I write the information for each type of reference in the same way. It also means that someone else would be able to locate the original source of the citations I used in my experiment or research.
- SCI6-8.COMM2.VSULS**
- I can present data with visual representations. This means that I can present data using visual representations that mostly support my explanation of the issue.
 - I can create a presentation that applies the conventions of scientific communication to my ideas. This means that I can present numerical and observational data that mostly follows standard scientific conventions.
- SCI6-8.COMM3.TECH**
- I can use technology and media to express and discuss scientific ideas. This means that I can use appropriate technology and media to communicate and discuss scientific ideas.
 - I can use appropriate technology and media to collaborate on scientific ideas beyond the classroom. This means that I can use technology to work in a limited way with other individuals on scientific issues.
- SCI6-8.COMM4.FORMT**
- I can choose a communication format for a science issue. This means that I can choose a type of communication strategy and format that shows I understand the science issue.

TAKE ACTION

What is the evidence that the students translates scientific inquiry or research results into actions that increase awareness and improve global conditions?

SCI6-8.ACT1.PLAN

- I can develop an action plan connected to experimental or research findings. This means that I can develop a plan that proposes an action or policy relevant to a science issue.

SCI6-8.ACT2.IMPCT

- I can identify available technology for my plan. This means that I can locate what needs to be available in order to accomplish my plan.
- I can identify that possible actions can be influenced by various viewpoints. This means that I can start describing how various points of view, including alternative points of view, may influence my plan for positive change.

SCI6-8.ACT3.IMPLT

- I can implement an action plan. This means that I can take action, following and revising a plan as needed, to bring about positive change.
- I can collect data related to changes in the local or global science issue. This means that I can collect appropriate data about positive, negative, or null changes related to the issue and resulting from actions taken.
- I can discuss the data. This means that I can describe how the data connect to changes in the global issue.

SCI6-8.ACT4.RFLCT

- I can reflect on how the project has affected my views on the issue. This means that I can think about and describe how completing the project has developed my views about the issue.