



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.** Formulates questions about a significant global science issue.
- **SCI6-8.INV2.SOURC.** Gathers background information from a variety of secondary sources and compares and analyzes it, with results beginning to support the hypothesis or research thesis.
- **SCI6-8.INV3.MODEL.** Identifies an existing theory and/or model related to an experimental hypothesis or research thesis and begins to question the credibility and reliability of the theories and/or models, identifying limited evidence to support or refute them.
- **SCI6-8.INV4.XPRMT.** Designs an experiment that is related to the stated problem and bases conclusions on observations, measurements, and empirical data.

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.** Identifies and uses two contexts to interpret a global science issue and discusses alternate viewpoints.
- **SCI6-8.PERS2.DATA.** Identifies patterns or relationships in the data with limited mathematical or statistical analysis or minor errors, identifies and discusses experimental error, outliers, and/or inconsistencies in the data, and refers to the hypothesis or research thesis in the conclusion.
- **SCI6-8.PERS3.QUSTN.** Poses new questions with clear relevance to the research findings.

COMMUNICATE IDEAS

What is the evidence that the student advances and defends arguments that foster collaboration among diverse audiences?

- **SCI6-8.COMM1.PRCDR.** Explains experimental and/or research procedures in detail, some steps required to replicate the experimental design may be incomplete, and bibliographic format is consistent for each type of reference or citation.
- **SCI6-8.COMM2.VSULS.** Presents data with visual representations that mostly support explanation of the science issue and experimental or research presentation follows most conventions of scientific communication.
- **SCI6-8.COMM3.TECH.** Uses technology and media to express and discuss scientific ideas and collaboration within the classroom, as well as beyond the classroom at a limited level.
- **SCI6-8.COMM4.FORMT.** Selects communication format indicating a developing understanding of a science issue.

TAKE ACTION

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

- **SCI6-8.ACT1.PLAN.** Develops an action plan that describes positive actions or policy relevant to scientific inquiry or research findings.
- **SCI6-8.ACT2.IMPCT.** Identifies available technology and personal views for selected actions and begins to think about their impact.
- **SCI6-8.ACT3.IMPLT.** Implements an action plan, collects and discusses data, and begins to identify changes in a local or global science issue.
- **SCI6-8.ACT4.RFLCT.** Describes in a reflection how feelings and thinking about the issue was informed by the project.