# Science, Engineering, and Literacy Practices that Students Use During an Argument-Driven Engineering Design Challenge

| Stage | Science and Engineering Practices | Disciplinary-Specific Literacy Practices |
|---|---|---|
| **Problem** | SEP1: Ask questions and define problems<br>SEP8: Obtain, evaluate, and communicate information | |
| **Ideas** | SEP8: Obtain, evaluate, and communicate information | LRST.1: Key ideas and details<br>LRST.2: Craft and structure<br>LRST.3: Integration of knowledge and ideas<br>LRST.4: Range of reading<br>LSL.1-3: Comprehension and collaboration |
| **Generate** | SEP2: Develop and use models<br>SEP6: Construct explanations and design solutions | LWHST.1-2: Text types and purposes |
| **Feedback** | SEP1: Ask questions and define problems<br>SEP7: Engage in argument from evidence<br>SEP8: Obtain, evaluate, and communicate information | LWHST.1-2: Text types and purposes<br>LSL.1-3: Comprehension and collaboration<br>LSL.4-6: Presentation of knowledge and ideas |
| **Do** | SEP3: Plan and carryout investigations<br>SEP4: Analyze and interpret data<br>SEP5: Use mathematics and computational thinking<br>SEP6: Construct explanations and design solutions | |
| **Share** | SEP1: Ask questions and define problems<br>SEP7: Engage in argument from evidence<br>SEP8: Obtain, evaluate, and communicate information | LWHST.1-2: Text types and purposes<br>LSL.1-3: Comprehension and collaboration<br>LSL.4-6: Presentation of knowledge and ideas |
| **Reflect** | SEP3: Plan and carryout investigations | LSL.1-3: Comprehension and collaboration |
| **Report** | SEP7: Engage in argument from evidence<br>SEP8: Obtain, evaluate, and communicate information | LRST.1: Key ideas and details<br>LRST.2: Craft and structure<br>LRST.3: Integration of knowledge and ideas<br>LRST.4: Range of reading<br>LWHST.1-2: Text types and purposes<br>LWHST.4-6: Production and distribution of writing<br>LWHST.10: Range of writing |