

How does the Geometric Laser Projector project align with academic standards?

GEOMETRIC LASER PROJECTOR	
NGSS	Activity Applications
<p>Waves and Electromagnetic Radiation HS-PS4-5 Communicate technical information about how some technological devices use the principles of wave behavior and wave interactions with matter to transmit and capture information and energy.</p>	<ul style="list-style-type: none"> Explain properties of lasers and describe how the laser inside the projector reflects off mirrors to create changing patterns.
Common Core	Activity Applications
<p>English Language Arts > Science & Technical Subjects RST.9-10.3: Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text. RST.11-12.3 Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.</p>	<ul style="list-style-type: none"> Refer to multi-part, highly technical instructions to construct and troubleshoot the geometric laser project.
<p>RST.9-10.4: Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 9-10 texts and topics. RST.11-12.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics.</p>	<ul style="list-style-type: none"> Analyze symbols in a circuit diagram, as well as acquire and use technical vocabulary such as potentiometers, resistors, and electric motors.
<p>RST.9-10.5: Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., force, friction, reaction force, energy).</p>	<ul style="list-style-type: none"> Identify and explain connections between concepts like electrical energy, electromagnetism, and resistance.