

Reflecting on Colour and Light: Community of Inquiry

YEAR 5 AND 9
PHYSICAL SCIENCES



QGC

FUTUREMAKERS



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Future Makers

Future Makers is an innovative partnership between Queensland Museum Network and Shell's QGC business aiming to increase awareness and understanding of the value of science, technology, engineering and maths (STEM) education and skills in Queensland.

This partnership aims to engage and inspire people with the wonder of science, and increase the participation and performance of students in STEM-related subjects and careers — creating a highly capable workforce for the future.

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EVALUATE

Reflecting on Colour and Light: Community of Inquiry

Teacher Resource

In this activity, students participate in a community of inquiry to review and reflect on learning and new understandings and skills. This process provides students with an opportunity to reach a deep, shared understanding of the concepts and issues underpinning the inquiry topic.

The community of inquiry is a structured, dialogic process that requires participants to ask open inquiry questions, listen and think, share ideas and consider alternative viewpoints. Problematic issues and concepts are discussed collaboratively within a supportive learning environment where all views are considered and respected. Reflecting on thinking is integral to the process.

The following engagement protocols are used during the community of inquiry process, and these should be included on the walls for all students to see.

- Listen attentively
- Build on and connect ideas
- Respect self, others and place
- Disagree reasonably and respectfully
- There may be many responses considered to be correct

In small groups, students discuss the following questions. Students then share their responses with the larger group; students should be encouraged to give reasons for their answers. You may like to record students' answers on a whiteboard or butchers paper.

- What more do we understand about colour and light?
- In what ways did our community assist us to gain new understandings?
- How can we apply these new understandings to the ways in which we interact with our world?
- What more would we like to know as individuals/as a community?

Curriculum Links

Science

YEAR 5

Science Understanding

Light from a source forms shadows and can be absorbed, reflected and refracted (ACSSU080)

Science Inquiry Skills

Communicate ideas, explanations and processes using scientific representations in a variety of ways, including multi-modal texts (ACIS093)

YEAR 9

Science Understanding

Energy transfer through different mediums can be explained using wave and particle models (ACSSU182)

Science Inquiry Skills

Communicate scientific ideas and information for a particular purpose, including constructing evidence-based arguments and using appropriate scientific language, conventions and representations (ACIS174)

General Capabilities

Literacy

Composing texts through speaking, writing and creating

Critical and Creative Thinking

Reflecting on thinking and processes