



# QCER

## Supporting discussion and argumentation

QCER is an argumentation tool. It supports students to make claims based on evidence in the form of observations, information and data collected through investigating.



What **question** were you trying to answer with your investigation?



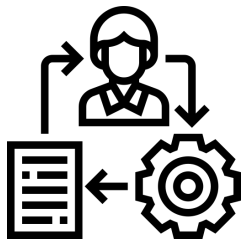
What **claim** do you make as a result of your investigation?



What **evidence** did you gather that supports/help prove your claim?



The **reasoning**—how does the evidence you collected support your claim?



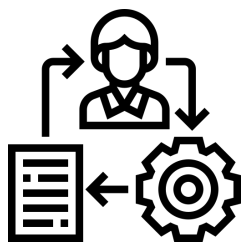
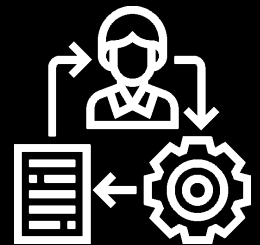
### How?

- Informally and formally while students complete investigations to prompt and scaffold discussion, and support presentation of findings, and argumentation.

### Why?

"Research has shown that students will typically discount the data that they've collected, so they will often revert to their previous non-scientific ideas, unless they go through this form of discussion afterwards."

Julie Smith (2012) Primary Connections Curriculum Co-ordinator



### Supporting learning

- Use Science Question Starters to guide discussion.
- Encourage teams to prepare written responses for QCER prompts to support discussion.



### Gathering data

Evidence of students':

- use of science understandings to support reasoning
- justifying using claims and evidence
- evaluating
- collaborating and communicating technologically

