# Scientific inquiry process in Years 3–4

**New learning**

**Scientific inquiry**

**Reflect**

Review the question, prediction, research method and the outcomes.

* Has a solution been found?
* Do new questions arise?
* Where to from here?
* What have I learnt that can inform future learning?

The answers to these questions may mean it is necessary to conduct the inquiry again.

**Evaluate/justify**

* provide reasons and/or evidence to support statements about findings

\* In Science, a *primary source* is information created by the person or persons directly involved in a study or observing an event. A *secondary source* is information that has been compiled from primary sources by a person or persons not directly involved in the original study or event, e.g. texts found on websites, magazines or textbooks.

**Communicate**

* develop reasoned arguments and/or explanations
* use scientific language and representations

**Analyse/interpret**

* analyse observations, data and information to identify patterns and trends
* describe connections between observations, data and information
* make meaning of observations, dataand information

**Question**

* conduct initial research and/or trials
* apply knowledge and understanding
* identify and pose questions and make predictions

**Investigate**

* plan and conduct practical and/or research-based investigations
* collect and organise data and information from primary and/or secondary sources\*