

Grade	Questioning and Predicting	Planning and Conducting	Processing and Analyzing data	Evaluating	Applying and Innovating	Communicating
K and up	<ul style="list-style-type: none"> • curiosity, • questioning 	<ul style="list-style-type: none"> • observe • manipulate materials • non-standard measuring 	<ul style="list-style-type: none"> • interpret environment • recognize First People's knowledge sharing • discuss observations • draw observations 		<ul style="list-style-type: none"> • care for self and community • apply learning to new situations • generate new ideas when problem solving 	<ul style="list-style-type: none"> • oral sharing • express personal experiences of place
1 and up	<ul style="list-style-type: none"> • simple predictions 	<ul style="list-style-type: none"> • record observations • manipulate materials to test ideas 	<ul style="list-style-type: none"> • classify data • pictographs and tables • compare observations with predictions • identify patterns 	<ul style="list-style-type: none"> • compare observations with those of others • consider environmental consequences of actions 		<ul style="list-style-type: none"> • written and role-play communication
3 and up	<ul style="list-style-type: none"> • questions for investigation • predictions on prior knowledge 	<ul style="list-style-type: none"> • suggest ways to plan inquiries • ethical responsibilities • use tools for formal measuring • simple data collection 	<ul style="list-style-type: none"> • First People's knowledge as information source • use tables, bar graphs to represent data • compare results with predictions 	<ul style="list-style-type: none"> • make simple inferences • fair testing, appreciate evidence • identify implications of others' actions 	<ul style="list-style-type: none"> • co-operatively design projects 	<ul style="list-style-type: none"> • diagrams, simple reports, digital technologies
5 and up	<ul style="list-style-type: none"> • sustained curiosity • observations in unfamiliar contexts 	<ul style="list-style-type: none"> • plan investigations • decide variables for fair testing • data selection • risk assessment 	<ul style="list-style-type: none"> • use tables, graphs, digital technology to represent relationships in data • identify connections in data • consider alternative ideas 	<ul style="list-style-type: none"> • recognition of sources of error • suggest improvements on methods • identify assumptions in secondary sources • identify social and ethical implications 		<ul style="list-style-type: none"> • reflect on others' experiences of place
7	<ul style="list-style-type: none"> • sustained intellectual curiosity, • observations to identify questions • hypothesize simple "If...then..." 	<ul style="list-style-type: none"> • collaboratively plan investigations • measure and control variables (in/dependent) • accurately measure and record data 	<ul style="list-style-type: none"> • other ways of knowing and local knowledge • construct keys, scale models • recognize connections between own and secondary source data • identify relationships and draw conclusions 	<ul style="list-style-type: none"> • assess adequacy of controls and data quality • suggest improvements on methods • awareness of assumptions and bias • appreciate evidence • healthy and informed skepticism • evaluate claims in secondary sources 		<ul style="list-style-type: none"> • use scientific language and representations • variety of perspectives and experiences of place

The competencies for each grade include those in preceding grades.