Science (SCI)

Cause and Effect 1

2 Inquiry Through Observation and Investigation 2

1 Cause and Effect 1

Child develops increasing ability to observe, anticipate, and reason about the cause-and-effect relationships between actions and events

Responding

- E Responds or shows anticipatory excitement to people, objects, or actions EARLIER
- L Repeats the same action with the same objects or people that produced an effect LATER

Exploring

- E Repeats the same action with different objects or people EARLIER
- L Explores possible causes of actions or events LATER

Building

- E Acts on objects based on their features EARLIER
- M Shows anticipation of effects of actions or events MIDDLE
- L Offers possible explanations for why certain actions or behaviors result in specific effects LATER

Integrating

- E Shows understanding that variations in actions or degrees ofactions with the same objects or materials cause different results EARLIER
- M Shows understanding that effects may arise from causes that are not easily perceived MIDDLE
- L Applies understanding of causeand-effectrelationships to plan investigations and draw conclusions about causes of observable events LATER

2 Inquiry Through Observation and Investigation 2

Child develops increasing ability to carry out observations,explorations, an en

Skip to main content

Responding

- E Responds to people, things, or sounds EARLIER
- L Shows interest in people or things in the environment LATER

ploring

E Attends to responses of objects or people that result from own actions EARLIER

L Engages in simple, purposeful explorations of familiar objects in the environment LATER

Building

E Engages in extended explorations of objects and events in the environment EARLIER

M Makes simple predictions about objects and events of interest in the environment MIDDLE

L Carries out an exploration or investigation to check predictions and test out solutions LATER

Integrating

E Identifies information, gathered from an exploration or investigation, that is relevant to answering questions EARLIER

M Generates new questions based on information gathered and findings of explorations or investigations MIDDLE

L Plans and carries out systematic explorations or investigations to collect data that will provide evidence relevant to specific questions LATER

Documentation and Communication of Inquiry 3

3 Documentation and Communication of Inquiry 3

Child develops increasing capacity to describe, record, and communicate about their observations and investigations

Exploring

E Identifies objects or actions in the environment EARLIER

L Communicates about characteristics (e.g., color, size, texture) ofan object or action LATER

Building

E Notices differences in characteristics between objects or actions EARLIER

M Provides representations (e.g., drawings, models, communications) that include general features about objects or actions in their environment MIDDLE

L Provides representations of the details of objects or actions in their environment, with some accuracy LATER

Integrating

E Communicates about information that they helped to gather (e.g., tallying, charting, simple graphing, or complex drawings) EARLIER

M Identifies patterns and draws simple conclusions based on recorded information MIDDLE

L Identifies and communicates how the evidence informs the questions or problems explored LATER