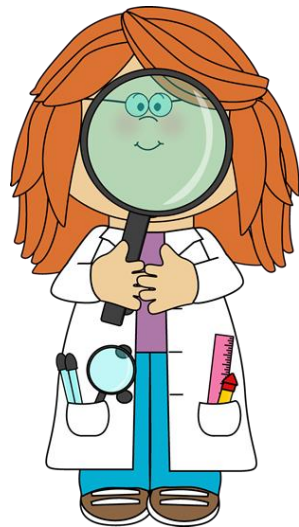




Science Process Skills



observing



Using your 5 senses (seeing, hearing, touching, smelling, and tasting when appropriate) along with the right tools to gather information.

classifying

identifying similarities
and differences

identifying relevant
observations

collecting evidence

measuring

questioning



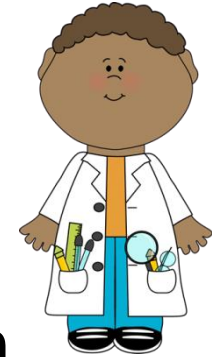
Thinking of and asking questions about an object, event, or a science topic.

suggesting how answers to questions can be found

recognizing and asking questions that can be investigated

turning a non-investigable question into one that can be acted upon

hypothesizing



Attempting to give an explanation of an event, the nature of an object, or a science topic – based on your experience.

constructing models
to help clarify ideas

explaining the evidence
behind a hypothesis

giving explanations based
on ideas from prior experiences

inferring

predicting



Forecasting the outcome of a specific future event based on a pattern of evidence or a hypothesis. It is not a wild guess.

justifying a prediction in terms of a pattern in the evidence

searching for patterns in order to forecast a specific future outcome

making a prediction to test a hypothesis

planning & investigating



Designing an investigation that includes procedures to test a hypothesis and collect reliable data.

using measuring
instruments

identifying and
controlling variables

comparing results with what was planned

interpreting



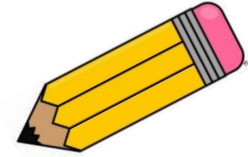
Looking at the evidence, evaluating it to look for a pattern, and drawing a conclusion from the data.

evaluating a hypothesis based on the data

recommending further testing where necessary

identifying human mistakes and experimental errors

communicating



Representing observations, ideas, models, or conclusions by talking, writing, drawing, making physical models, creating charts, and so on.

creating charts
and graphs

presenting reports

constructing
data tables

using drawings,
writing and models
to present ideas

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