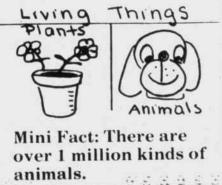


Seven Things Good Scientists Do!



5. Observe . . . Scientists learn to use all their senses (touching, seeing, hearing, smelling and tasting) to find out things. See the observer at work.

6. Classify ... Scientists group things to show their order. Things that are alike can be grouped together. Groups can be divided into sub-groups.



7. Infer... Scientists use what they already know to solve problems and reach conclusions. Inferences or thought-ful guesses are not always right. EXAMPLE ... You might see that a pin is attracted to a magnet. You could then INFER that all metal things are attracted to a magnets. This is not so.

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How Good a Scientist Are You?

1. Experiment . . . Scientists must learn the steps to use in solving a problem.



PROBLEM: What are bones made of?

FINDING OUT: Put a clean chicken bone in a glass of vinegar. After a few days (2-5) take the bone out and observe it. How is it different? Try to bend it!

CLUE: The hard part of bones are made of minerals, mainly calcium. The minerals are dissolved by the acid in the vinegar. What remains is the soft cartilage part of the bone.



2. Measure... Scientists measure temperature, weight, length and other things. They also compare sizes.

3. Use numbers... Scientists use math to help record their findings.

A huge hailstone

Mini Fact: The largest hailstone ever recorded weighed 766 grams (1.67 lbs.) and measured 44 centimeters (17½ inches) around. It fell in Coffeyville, Kansas in September of 1970.

4. Communicate...
Scientists make
drawings, write about
and tell about their
findings.
Mini Fact: The largest
fish is the whale
shark. It can grow to
be 50 feet long.
Right: See the young
scientists at the beach.
What do you think they
are saying?