

INTEGRATED SCIENCE A
NTI DAY 1

During an investigation, students were given chemical data for several common household products, as shown in the data table below. Students were to determine if a substance was an acid or base by using litmus paper. Litmus paper turns red in an acid and turns blue in a base.

Substance	Color of Solution	Melting Point (°C)	Boiling Point (°C)	Soluble in Water	Odor	Litmus Paper Test
Carpet cleaner	Clear	0	100	Yes	Weak	Blue
Vinegar	Clear	-2	118	Yes	Strong	Red
Oven cleaner	Clear	-1	93	Yes	Weak	Blue
Bleach	Clear, light yellow	0	100	Yes	Strong	Blue

1. Which conclusion is supported by the data from the investigation?
 - A. Many cleaning supplies are soluble in water.
 - B. Water is the main ingredient in many cleaning supplies.
 - C. substance changes from a gas to a liquid as the temperature of the substance increases.
2. Biologists conduct investigations to learn about living organisms. Which method helps reduce bias during an investigation?
 - A. developing a hypothesis after collecting data in the investigation
 - B. designing an investigation with repeated trials during the investigation
 - C. obtaining other opinions concerning what should happen during the investigation
3. Which is the only substance in the table that is an acid? _____
4. Which substance has the lowest melting point? _____

