

COLOR-CHANGING POTION

The goal of this lab is to identify chemicals in your home that are acidic, basic, and neutral. Red cabbage juice is a pH indicator that will change colors when mixed with acidic or basic chemicals. When mixed with different pH materials the color will turn (or not) as follows: Acids - Red/Pink ; Bases - Green/Blue-Green ; Neutrals - no change/blueish-purple.

Pick a variety of chemicals (including food or juice!) you want to test. Predict whether you think they are acidic, basic, or neutral. Test your prediction by mixing with purple cabbage juice and observing the color of the mixture.

my materials

write down the kitchen chemicals you will mix with cabbage juice in this experiment

_____	_____
_____	_____
_____	_____
_____	_____

Trial 1:

I am testing _____

I predict this chemical is (circle one): acidic neutral basic

I predict the cabbage juice will (circle one): turn red stay purple turn green

What is the resulting color after mixing the chemical and cabbage juice? (circle one)

RED/PINK	PURPLE	BLUE-GREEN/GREEN
acidic	neutral	basic

Trial 2:

I am testing _____

I predict this chemical is (circle one): acidic neutral basic

I predict the cabbage juice will (circle one): turn red stay purple turn green

What is the resulting color after mixing the chemical and cabbage juice? (circle one)

RED/PINK	PURPLE	BLUE-GREEN/GREEN
acidic	neutral	basic

Science at Home: Material Madness Worksheet

Trial 3:

I am testing _____

I predict this chemical is (circle one): acidic neutral basic

I predict the cabbage juice will (circle one): turn red stay purple turn green

What is the resulting color after mixing the chemical and cabbage juice? (circle one)

RED/PINK

PURPLE

BLUE-GREEN/GREEN

acidic

neutral

basic

Trial 4:

I am testing _____

I predict this chemical is (circle one): acidic neutral basic

I predict the cabbage juice will (circle one): turn red stay purple turn green

What is the resulting color after mixing the chemical and cabbage juice? (circle one)

RED/PINK

PURPLE

BLUE-GREEN/GREEN

acidic

neutral

basic

Trial 5:

I am testing _____

I predict this chemical is (circle one): acidic neutral basic

I predict the cabbage juice will (circle one): turn red stay purple turn green

What is the resulting color after mixing the chemical and cabbage juice? (circle one)

RED/PINK

PURPLE

BLUE-GREEN/GREEN

acidic

neutral

basic

Science at Home: Material Madness Worksheet

Trial 6:

I am testing _____

I predict this chemical is (circle one): acidic neutral basic

I predict the cabbage juice will (circle one): turn red stay purple turn green

What is the resulting color after mixing the chemical and cabbage juice? (circle one)

RED/PINK

PURPLE

BLUE-GREEN/GREEN

acidic

neutral

basic

Trial 7:

I am testing _____

I predict this chemical is (circle one): acidic neutral basic

I predict the cabbage juice will (circle one): turn red stay purple turn green

What is the resulting color after mixing the chemical and cabbage juice? (circle one)

RED/PINK

PURPLE

BLUE-GREEN/GREEN

acidic

neutral

basic

Trial 8:

I am testing _____

I predict this chemical is (circle one): acidic neutral basic

I predict the cabbage juice will (circle one): turn red stay purple turn green

What is the resulting color after mixing the chemical and cabbage juice? (circle one)

RED/PINK

PURPLE

BLUE-GREEN/GREEN

acidic

neutral

basic

