

WRITING HYPOTHESES

If _____ is related to _____ then _____

DEPENDENT

What you will look for.
What you will measure.
The Effect

INDEPENDENT

What you will do.
The Cause

THE TEST

This part must discuss both the independent and dependent. Don't add other ideas. If you increase/decrease one variable the other should change. Explain HOW you think they will change.

1. Will the amount of daylight affect the total hours of sleep a child gets?

Effect = hours of sleep Cause = amount of daylight
Dependent = hours of sleep Independent = hours of sleep

The test (What do you think?) as amount of daylight decreases
hours of sleep increases

Write the hypothesis If hours of sleep is related to amount
of daylight then as daylight decreases the
hours of sleep increases.

2. Is intelligence controlled by birth order?

Effect = Intelligence Cause = birth order
Dependent = Intelligence Independent = birth order

The test (What do you think?) the first born will have the
highest intelligence.

Write the hypothesis If intelligence is related to birth order
then the first born will have the highest
intelligence

3. Can the hand you write with predict your math ability?

Effect = math ability

Cause = hand you write with

Dependent = math ability

Independent = hand you write with

The test (What do you think?) _____

Write the hypothesis If math ability is related to the hand you write with, then...

4. Do musicians score higher on tests than non-musical students?

Effect = Test score

Cause = being a musician

Dependent = Test score

Independent = being a musician

The test (What do you think?) If test scores are related to being a musician, then...

Write the hypothesis _____

5. If children play for 60 minutes a day, will their overall health improve?

Effect = Health

Cause = Play time

Dependent = health

Independent = play time

The test (What do you think?) _____

Write the hypothesis If overall health is related to the amount of time children play then...

6. Can adding mass increase the inertia of a car?

Dependent = Inertia Independent = Adding mass

Write the hypothesis If inertia is related to mass then adding mass will increase inertia.

7. Does batting practice increase your hitting average?

Dependent = hitting avg. Independent = batting practice

Write the hypothesis If your hitting average is related to batting practice then increasing practice will increase your average.

8. Earthworm speed will change as the intensity of light changes.

Dependent = Earthworm Spd Independent = Intensity of light

Write the hypothesis If earthworm speed is related to light intensity then a stronger light will make a worm move faster.

9. Length of illness may be affected by the amount of medicine consumed.

Dependent = length of illness Independent = medicine

Write the hypothesis If the length of illness is related to medicine then consuming more medicine will decrease the length of illness.

3. Can the hand you write with predict your math ability?

Effect = math ability
Dependent = math ability

Cause = hand you write with
Independent = hand you write with

The test (What do you think?) _____

Write the hypothesis If math ability is related to the
hand you write with, then...

4. Do musicians score higher on tests than non-musical students?

Effect = Test score
Dependent = Test score

Cause = being a musician
Independent = being a musician

The test (What do you think?) If test scores are related to being a
musician, then...

Write the hypothesis _____

5. If children play for 60 minutes a day, will their overall health improve?

Effect = Health
Dependent = health

Cause = Play time
Independent = play time

The test (What do you think?) _____

Write the hypothesis If overall health is related to the
amount of time children play then...

10. Does the presence of leaves on a tree affect the number of bird nests?

Write the hypothesis If # of bird nests is related to the presence of leaves on a tree then ...

11. What happens to the population of fish in a lake if there is acid rain?

Write the hypothesis If fish pop. is related to acid rain then ...

12. Does the amount of calcium you eat affect bone strength?

Write the hypothesis If bone strength is related to calcium intake.

13. Might your teachers give less homework if you brought them chocolate daily?

Write the hypothesis If homework amount is related to giving a teacher chocolate...

14. Does temperature have an effect on plant germination in the spring?

Write the hypothesis If plant germination is related to temp. then ...