DoodleBeez Worksheets

Grades 6 to 8 | Science

Name: Date: Score: / 8

Genes and Growth: Learn and Practice

How genes and surroundings shape growth

Read each question. Circle the best answer.

💡 Growth Factors

- Genes set the possible traits and size of an organism.
- Environmental factors like food, water, light and space affect how well it grows.
- Genes and environment work together.
- same seeds, one pot in shade: smaller plant

1 🐶 Two puppies from the same litter get different amounts of food. Which will likely grow bigger?

A. The underfed puppy B. The well fed puppy

C. They will be the same D. The one that sleeps less

2 Plants grown in a dark room become tall, thin and pale. What factor caused this?

A. Too much space B. Too much fertilizer

C. Lack of light D. Their genes only

3 💐 Hydrangea flowers can be blue or pink depending on the soil. What does this show?

A. Genes control everything

B. Flowers choose their color

C. Environment can affect traits D. Soil has no effect

4 Identical twins share the same genes, but one grows a little taller. What likely explains this?

A. Differences in diet or health B. They are not twins

C. Different genes D. Different parents

5 Which is an environmental factor that affects plant growth?

A. Amount of sunlight B. The plant's DNA

C. Genes from its parents D. The species name

6 Which trait is mostly set by genes?

A. A scar on your knee B. The language you speak

C. Your favorite song D. Natural eye color

7 🌱 What does a seedling need to grow well?

A. Only darkness B. Water, light and nutrients

C. Only cold air D. Only salt water

8 What can happen to a plant grown in poor soil?

A. It will turn into a tree B. It may grow small and weak

C. It will glow D. It will grow giant

NGSS MS-LS1-5 · BC Science Grade 6: Multicellular organisms rely on internal systems to survive, reproduce, and interact with their environment.

ANSWER KEY

Genes and Growth: Learn and Practice (answers)

How genes and surroundings shape growth

Read each question. Circle the best answer.

1 🐶 Two puppies from the same litter get different amounts of food. Which will likely grow bigger?

A. The underfed puppy **B. The well fed puppy**

C. They will be the same D. The one that sleeps less

2 Plants grown in a dark room become tall, thin and pale. What factor caused this?

A. Too much space B. Too much fertilizer

C. Lack of light D. Their genes only

3 💐 Hydrangea flowers can be blue or pink depending on the soil. What does this show?

A. Genes control everything

B. Flowers choose their color

C. Environment can affect traits D. Soil has no effect

4 Identical twins share the same genes, but one grows a little taller. What likely explains this?

A. Differences in diet or health B. They are not twins

C. Different genes D. Different parents

5 Which is an environmental factor that affects plant growth?

A. Amount of sunlight B. The plant's DNA

C. Genes from its parents D. The species name

6 Which trait is mostly set by genes?

A. A scar on your knee B. The language you speak

C. Your favorite song **D. Natural eye color**

7 🌱 What does a seedling need to grow well?

A. Only darkness **B. Water, light and nutrients**

C. Only cold air D. Only salt water

8 What can happen to a plant grown in poor soil?

A. It will turn into a tree **B. It may grow small and weak**

C. It will glow D. It will grow giant