

Grade 8 – Science Answer Key

Item Number	Item Type	TEKS	Maximum Number of Points	Correct Answer(s)	Reporting Category	Readiness and Supporting
1	Match Table Grid	4.7.14.B	2	<p>Asexual Reproduction: The parent plant produces offspring by using runners. The offspring are identical to one another.</p> <p>Sexual Reproduction: The offspring can have two parents. See Appendix 1.1</p>	4	Supporting
2	Multiple Choice	4.7.14.C	1	B	4	Supporting
3	Drag and Drop	4.7.14.C	2	<p>Genes are found in chromosomes, which are contained in the nucleus of a plant cell. Genes control which traits are inherited by the strawberry daughter plants. See Appendix 1.2</p>	4	Supporting
4	Inline Choice	2.6.9.C	2	<p>The plant absorbs light energy from the sun. This energy is converted into chemical energy. This energy is stored within the plant in the form of sugars. See Appendix 1.3</p>	2	Supporting

Grade 8 – Science Appendix

1.1

Determine whether the statements in the table describe a characteristic of asexual reproduction or sexual reproduction in strawberry plants.

Select the correct answer in each row.

Statement	Asexual Reproduction	Sexual Reproduction
The parent plant produces offspring by using runners.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The offspring are identical to one another.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The offspring can have two parents.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

1.2

What role do genes play in determining the traits found in the strawberry daughter plants?

Move the correct answer to each box. Not all answers can be moved to all boxes.

chromosomes

cytoplasm

in the nucleus

outside the nucleus

inherited by

removed from

Genes are found in , which are contained of a plant cell. Genes control which traits are the strawberry daughter plants.

1.3

How does energy change form during the process of photosynthesis so that the daughter plant can grow?

Choose the correct answer from each drop-down menu to complete the statements.

The plant absorbs from the sun.



This energy is converted into .



This energy is the plant in the form of sugars.