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***Reproduction: One Goal, Two Methods***

**Responses to Self-Paced Investigation**

<http://www.teachersdomain.org/resource/midlit10.sci.splrepro/>

You need to access the student log in page to save your work.

Or try this link …it should directly take you to the activity. You can type on the screen page and print out your typed in work.:

http://lsintspl3.wgbh.org/en-us/lesson/midlit10-sci-splrepro/1

**Review Slides 1-3 to introduce and understand the purpose and layout of this activity**

**Slide 4**

1. What are some reasons why a living thing might want exact copies of itself?

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2. Give examples of some traits that parents pass on to their offspring. In what ways do these traits help a species survive?

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**After watching videos**

3. What is the name of an offspring that is the exact copy of its parent?

A) variant

B) clone

C) copy

4. What makes the lizard species that you saw in the video so unusual?

A) The entire species is made up only of females

B) The male lizards produce the egg

C) Their tails can grow back

5. In the video about the two species of fish, why does black spot disease spread more easily to fish that reproduce asexually?

A) The fish that reproduce sexually can swim faster

B) The cloned fish eat the worms that spread disease

C) The cloned fish have stopped evolving

**SLIDE 8: After reading passage**

6. In your own words, what does “natural selection” mean? Give one example of how an animal’s environment can influence the method it uses to reproduce.

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**SLIDE 9**

7. Complete the data table below after practicing on the guided lesson.

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| **Sexual Reproduction** | **Asexual Reproduction** |
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**SLIDE 10**

8. Write a sentence using each word from the vocabulary list.

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| **Vocabulary Word** | **Sentence** |
| **Reproduction** |  |
| **Trait** |  |
| **Clone** |  |
| **Genes** |  |
| **Natural selection** |  |
| **Offspring** |  |

9. Complete each sentence with the correct term from the ***vocabulary list above***.

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ differ from the previous generation when their parents reproduce sexually.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, which are found inside every cell in our bodies, influence the way we look and act.
* Hair color and height are examples of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in humans.
* Individuals that carry the genes of only one parent are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process all living things use to continue their species.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ explains why some species survive and why other die out.

**FINAL ASSIGNMENT**

10. Using your notes from this lesson and from class, write an essay with supporting details that answers the following question:

* What are the benefits and drawbacks of sexual and asexual reproduction for the species that practice them? Cite specific examples to support your ideas. Then, state which process you would rather practice, giving specific, biologic reasons as support.

***Planning space:***

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|  | **Asexual Reproduction** | **Sexual Reproduction** |
| **Benefits** |  |  |
| **Examples** |  |  |
| **Drawbacks** |  |  |
| **Examples** |  |  |

*Your Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Essay Response:*

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**Word Bank for Question 7:**

* Offspring have one parent
* Genes get “diluted”
* Better able to avoid disease
* Each generation is the same
* Offspring have 2 parents
* Genes are “not diluted”
* Each generation is different
* Strength in variety
* Less able to avoid disease
* Strength in numbers