

Name: _____ Period: _____

Investigating Reproductive Strategies

What are the advantages and disadvantages of sexual and asexual reproduction? Is one “better” than the other? You are a biologist who wants to find out. To answer these questions you will compare aspects of organisms that reproduce sexually with organisms that reproduce asexually. You will begin your study by looking at some organisms that represent both groups. Once your comparisons have been made, you will discuss your findings with all your group members to draw general conclusions about each method of reproduction.

As you read about each organism, place it in the right category below.

Sexual	Asexual	Both

Fill in the chart with as much detail as you can while you read the animal descriptions.

Characteristic	Sexual	Asexual
Relative complexity and size of organisms	Exceptions:	Exceptions:
Number of parents who contribute genetic information to the offspring and how the offspring compares to the parent(s)		

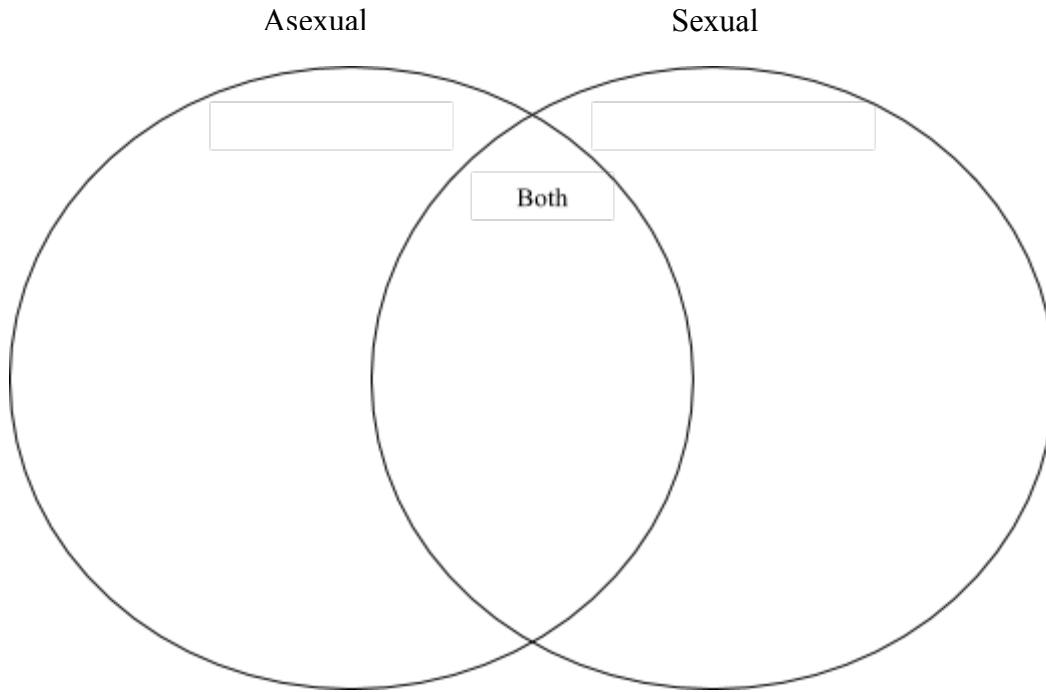
Characteristic	Sexual Reproduction Strategies	Asexual Reproduction Strategies
<p data-bbox="110 243 367 310">Amount of parental care</p> <p data-bbox="102 499 375 567">Examples of parental care</p>		
<p data-bbox="99 772 386 877">Genetic variation in the offspring <u>and how this is an advantage</u></p>		

Reflection—Discuss what you have learned about different reproductive strategies so far from this lesson.

Comparing Types of Reproduction

Place the numbers below in the appropriate space.

- | | | |
|---|---|-----------------------------------|
| 1. Requires only one organism | 2. Requires 2 organisms | 3. Passes on genetic material |
| 4. Offspring are identical to parent | 5. Involves little or no parental care | 6. Involves fertilization of eggs |
| 7. More variation in offspring | 8. All mammals reproduce this way | 9. A bacterium splitting into 2 |
| 10. Produces offspring | 11. Flowers using pollen to create a seed | 12. Used by complex animals |
| 13. Usually involves less complex organisms | | |



1. Name three organisms that can reproduce sexually.
2. Name two organisms that can reproduce asexually.
3. What is one organism that can reproduce both ways? **Explain how it can reproduce both ways.**