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Sexual vs. Asexual Reproduction

<u>Asexual Reproduction</u> - occurs when there is only one parent that gives rise to an offspring which has the same genetics as the parent. This occurs most often in single celled organisms, such as, bacteria and some multicellular organisms (fungi and plants).

<u>Sexual Reproduction</u> - involves the combining of genetic information from two individuals to produce a new organism with a combination of both parent's genetics. This occurs most often in more complex organisms.

1.) Using laptops and the following link to information, complete the following table.

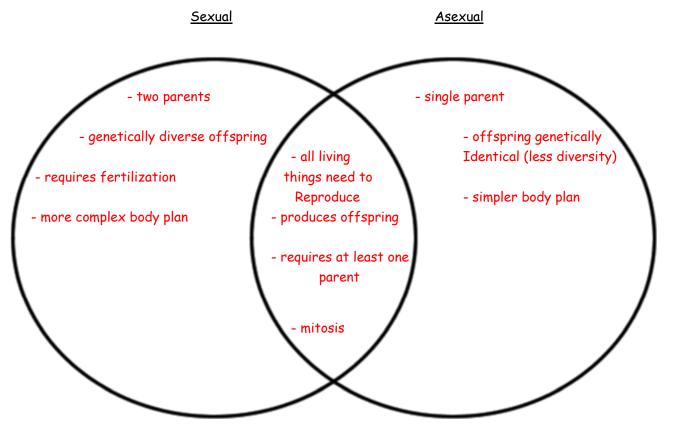
https://www.ck12.org/biology/reproduction/lesson/Asexual-vs.-Sexual-Reproduction-BIO/

	Asexual Reproduction	Sexual Reproduction
Number of parents	1	2
Genetic info compared to the parents	<u>Same</u> / Different	Same / <u>Different</u>
Complexity of organism that uses this method	<u>Simple</u> / Complex	Simple / <u>Complex</u>
Example of an organism that uses this method	Bacteria	Frog

2.) Complete the following chart below to answer the questions.

Name	Type of Reproduction (Asexual or Sexual)	What happens?	Example/Drawing
Binary Fission	Asexual	One cell split into two cells	Bacteria O
Budding	Asexual	Offspring grows out of parent	Planaria
Fragmentation	Asexual	Parent splits or is cuts into two or more pieces, which become offspring	Earthworm
Fertilization	Sexual	Sperm and egg	Humans

3.) Fill in the Venn diagram comparing and contrasting Sexual and Asexual Reproduction. Have at least **TWO** specifics for Sexual and Asexual, and at least **ONE** similarity between the two.



4.) Describe an advantage and disadvantage of asexual reproduction.

Advantage - no partner is needed. → simple → quick.

Disadvantage - no change in genetics (genetic diversity).

5.) Describe an advantage and disadvantage of sexual reproduction.

Advantage – promotes genetic diversity.

<u>Disadvantage – comparatively slow and need to find partner).</u>

6.) Classify the following as either Sexual or Asexual Reproduction. Give the specific type if Asexual.

a.) A small piece of a cactus breaks off the plant, falls to the ground, and begins to grow.

Answer - Asexual reproduction - fragmentation.

b.) Pollen from a male poplar tree fertilizes sex cells on a female poplar tree.

Answer - Sexual reproduction

c.) Two earthworms each produce sperm and eggs and fertilize each other.

Answer - Sexual reproduction

d.) A flatworm is cut in half and grows into two flatworms.

Answer - Asexual reproduction - fragmentation