



# CONCEPT BUILDER

## STUDENT PAGES

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Offspring-Uniform or Diverse

<b>Mission:</b> In this activity, you will compare and contrast sexual reproduction to asexual reproduction using a Venn diagram.		<b>Materials (per group):</b> <ul style="list-style-type: none"> <li>• Paper</li> <li>• Pencil/pen</li> </ul>
<i>To complete your mission, include the following:</i>	The following items placed in the correct area of the Venn Diagram: New organism Cutting of Ivy (plant) rooted in water One-celled organism dividing into two A Puppy A chickens egg Uniform genetic material Diverse genetic material One parent Two parents Genetic material Prokaryotic Cells Eukaryotic Cells Offspring produced DNA	

<b>Mission Instructions:</b>	
<ol style="list-style-type: none"> <li>1. Draw two overlapping circles that take up most of your paper to make the Venn Diagram.</li> <li>2. Label one of the circles "Asexual Reproduction" and the other circle, "Sexual Reproduction."</li> <li>3. Write each item on the list in the correct circle or intersection of the circles.</li> <li>4. If the item can be in either asexual or sexual reproduction it will go in the intersection.</li> </ol>	



## Offspring-Uniform or Diverse

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Rubric and Grade Sheet					
Category	Exceeds Expectations 3 points	Meets Expectations 2 points	Below Expectations 1 point	SCORE	Teacher Comments
<b>Content Mastery</b>	Included detail on <b>all</b> components and Key Concepts.	Included some detail on <b>most</b> components and Key Concepts.	Included <b>little to no</b> detail on components and Key Concepts.		
<b>Vocabulary</b>	Student correctly used <b>all</b> vocabulary and supported <b>all</b> content .	Student correctly used <b>most</b> vocabulary and supported <b>most</b> content .	Student correctly used <b>little to no</b> vocabulary and <b>did not</b> support content .		
<b>Research</b>	All information is accurate and is taken from at least 4 sources.	Most information is accurate and is taken from 2-3 sources.	Little to no information is accurate and is taken from one to no sources.		
<b>Product</b>	Final product is attractive and all components are easily identified	Final product is somewhat attractive and most components are easily identifiable.	Final product is not presented well, and components are difficult to identify.		
<b>Oral Presentation</b>	The student can clearly dialogue about the project and is able to convey their ideas in an organized manner	The student can somewhat dialogue about the project and can somewhat convey their ideas in an organized manner	The student cannot clearly dialogue about the project and their ideas are not conveyed in an organized manner		

### Mission Assessment:

1. In your own words, explain when it would be better for an organism to be genetically diverse from sexual reproduction.
2. In your own words, explain when it would be better for an organism to be genetically uniform from asexual reproduction.

