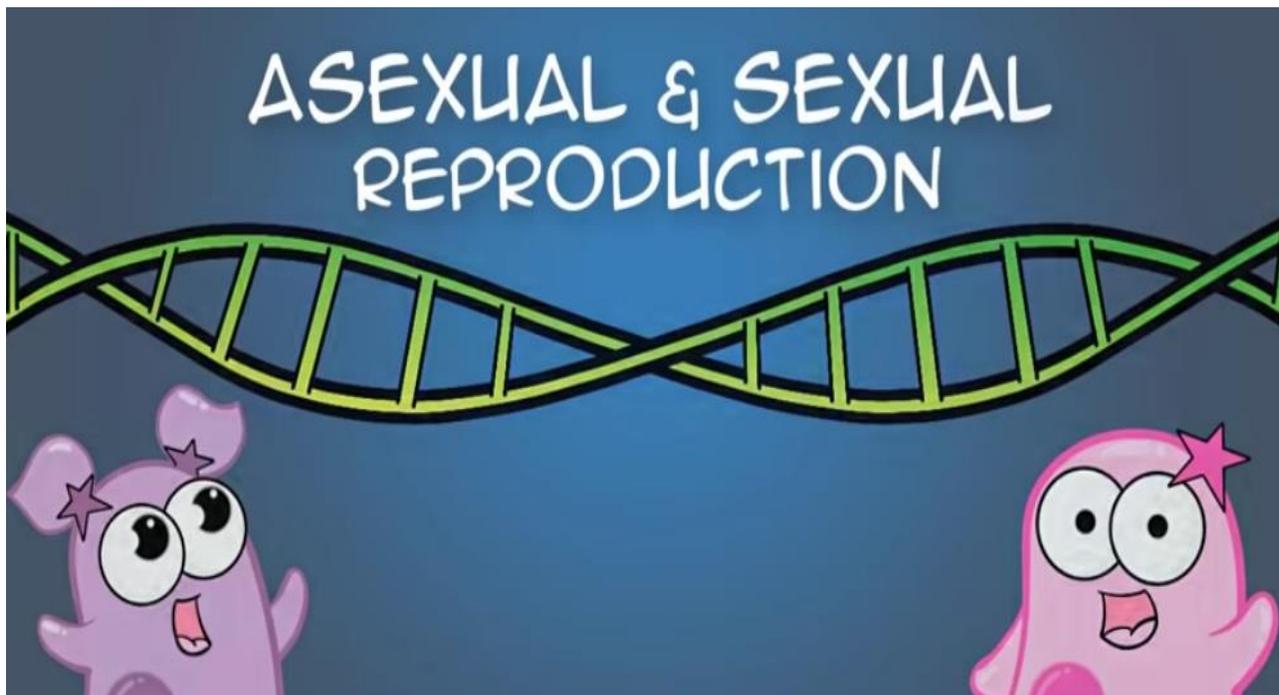


Inquiry Question

What is the difference between asexual and sexual reproduction and what advantages/disadvantages do each have?

Name: _____ Date: _____



Some organisms undergo asexual reproduction and others do sexual reproduction. Why? There must be pros and cons of each.

In the project you will look at a couple different forms of asexual reproduction including: binary fission and budding. Sexual reproduction will also be reviewed. You will see different organisms reproducing in one of these two ways and some organisms that make use of both forms of reproduction. It is important to consider the advantages and disadvantages to both asexual and sexual reproduction to understand why organisms may reproduce in the way that they do.

This video lab will help you understand the differences between asexual and sexual reproduction.

General Instructions

The goal of this project is to understand the differences between asexual and sexual reproduction.

Materials you'll need:

- internet
- worksheet

Ideas and Hints:

1. Watch the following videos comparing and contrasting asexual and sexual reproduction:

[Amoeba sisters video: asexual and sexual reproduction](#)

[video on asexual vs. sexual reproduction](#)

2. Complete the worksheet on the following page.

Project submission:

Once you have completed the worksheet, upload your finished file to the Biology project drop-box.

Learning Target 3.2

I can compare and contrast sexual and asexual reproduction

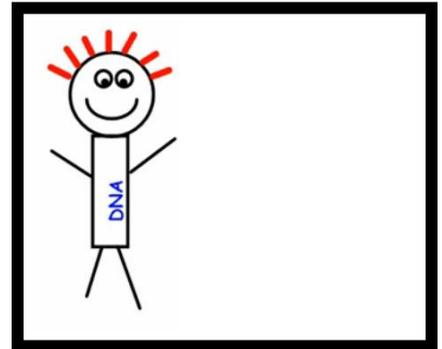
Asexual Reproduction

Binary Fission: one cell _____ to form two

_____.

- The box to the right shows a creature before binary fission. Draw what the end result of binary fission looks like.
- Name a type of organism that undergoes binary fission.

Binary Fission

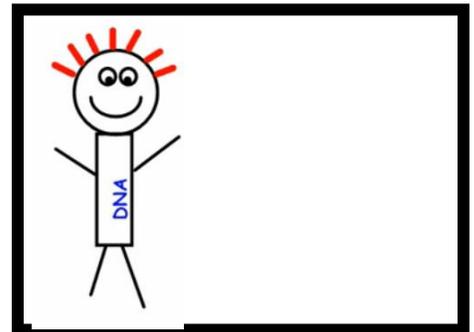


Budding: when a new _____ on another organism.

- Draw an example of budding taking place using the picture to the right.

Name an organism that can reproduce by budding.

Budding



Sexual Reproduction

Sexual Reproduction: creation of a new organism by combining _____ from two organisms.

- Give two examples of organisms that reproduce sexually: _____

Fill in chart with the correct descriptors.

Sexual

Asexual

Slower

Faster

1 Individual/parent

2 Individuals/parents

Offspring all the Same

New DNA Combinations

	Sexual	Asexual
Slower		
Faster		
1 Individual/parent		
2 Individuals/parents		
Offspring all the Same		
New DNA Combinations		