

## Bio 14.1

### Goals

- \* Describe the goals of sexual reproduction, specifically regarding the rearrangement of alleles
- \* Describe gametogenesis, referencing specifically the reorganization of alleles

### Plan

Asexual reproduction and mutations (copying song lyrics demonstration) (20 min)

Why sex? The fundamental paradox of sexual reproduction (20 minutes)

Plant reproduction (5 min)

Video: The Plants & The Bees: Plant Reproduction - CrashCourse Biology (10 min)

Angler fish reproduction (5 min)

Video: The Female Angler Fish's Strangest Appendage: The Male Angler Fish (5 min)

## Bio 14.2

### Goals

- \* Describe the goals of sexual reproduction, specifically regarding the rearrangement of alleles
- \* Describe gametogenesis, referencing specifically the reorganization of alleles

Aphid cloning (5 min)

Video: Amazing! Aphid cloning - Battle of the Animal Sexes - BBC Wildlife (5 min)

Worksheet questions (15 min)

What do all these strategies have in common?

Why is it important that organisms mix their genes?

Go over answers (5 min)

The ins and outs of gamete production (10 min)

## Bio 14.3

### Goals

- \* Describe stages of meiosis, and the cells created by it
- \* Identify stages by description

### Plan

Basic question: How are siblings not twins? (5 min)

Stages of meiosis: Seeing double (10 min)

Video: Meiosis Ameoba sisters (10 min)

How to mix things up: Cross over and independent assortment (10 min)

Video MCAT Law of Independent Assortment (5 min)