## Sex Determination

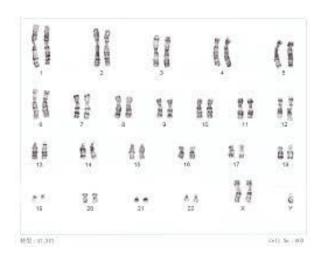
What's the difference between being heterogametic and homogametic?
Explain the male and female chicken sex chromosomes.
What's phenotypic dimorphism? Can you provide a few example species?
The chromosome in humans causes maleness.
Mullerian/paramesonephric ducts are in
Wolffian ducts are in
What is the definition of differentiation?
The mesoderm contains:
The ectoderm contains:

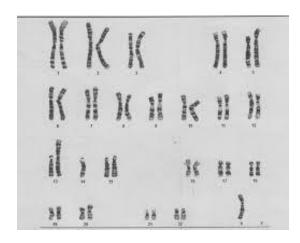
The endoderm contains:
Briefly describe the differentiation of the reproductive tract.
If an embryo starts producing the SRY (AKA TDF) protein, what happens next?
Primary versus Secondary sexual differentiation:
Compare the size of the Y-chromosome to the X-Chromosome. What is the PARs region on the Y-chromosome and why is it important?
Describe the MSY and the SRY regions on the Y-chromosome.

Describe TDF:
What produces AMH? What does it do?
What are the two theories as to why birds wait until a few days into incubation to differentiate?
Brain dump: the gynandromorphic chicken

What is a freemartin calf? How does this happen?

## Describe Klinefelter and Turner syndrome. Which karyotype belongs to which?





What is dosage compensation? What are bar bodies and x-inactivation? How many escapes inactivation?

