Chapter 11-4, Part I Objectives: Students will

- A) Identify our genetic material and its location.
- B) Summarize the relationship between DNA, alleles, genes, chromosomes, and traits.
- C) Identify the locations of meiosis
- D) Summarize why half of an individual's genetic information comes from each parent
- E) Determine an individual's sex based on their chromosome makeup.

Obj. B) Summarize the relationship between DNA, alleles, genes, chromosomes, and traits.

What is this?



A) Identify our genetic material and its location.

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Code for Obj. B) Summarize the relationship between DNA, alleles, genes, chromosomes, and traits.

Trait

in a

Can you ID some traits on this

man?

Obj. C) ID the locations of meiosis. in the Males = Females =	Obj. E) Determine an individual's sex based on their chromaton Autosomes & Sex Chromator = = for all	
make! In males make In females make make	except chromosomes= Pair #	日本 日
maxe		-

Obj D) Summarize why half of	an individual's genetic information
comes from each parent	Account to

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- 1 _____ from ____
- 1 _____ from _____

Humans= _____

chromosomes (pairs) or _____ total

Why are total chromosome numbers always even?

If a lizard's diploid # is 36, what is

its haploid #?

Understanding Check

- 1. Place these in order from smallest to largest: gene, allele, DNA, chromosome.
- 2. Where does meiosis occur in males and females?
- 3. What are homologous chromosomes? How many do humans have?
- 4. What is the genetic make-up of a female?
- 5. Why is the chromosome number usually even?