

7th grade Heredity Notes Day 1

Naturally Curly Hair

Freckles

Hand Clasping



Cross Left Thumb Over Right



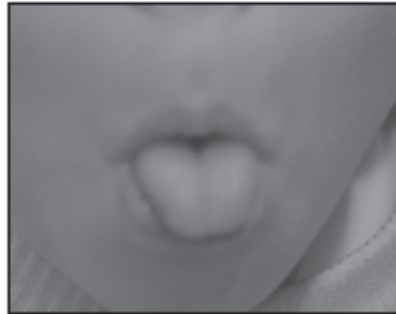
Cross Right Thumb Over Left



Tongue Rolling



Can Roll Tongue



Can't Roll Tongue

Earlobe Attachment



Attached Earlobes



Detached Earlobes

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Cleft Chin

Handedness

Dimples



Acquired Traits vs. Inherited Traits

Trait an “observable” characteristic
Acquired means bought, obtained,
“gotten”- Example: I acquired a new
watch

Inherited means that something
was “passed on” to you by your
parents (or relatives)- Example: I
inherited this house from my
parents

Acquired Traits vs. Inherited Traits

Acquired traits are obtained over a lifetime:

Examples

Bigger muscles

Dyeing your hair

The ability to play an instrument

The ability to speak a language

Anything that you “learned” in your life

These traits **CANNOT** be passed on to offspring

Acquired Traits vs. Inherited Traits

Inherited traits are obtained from your parents

Examples

Eye color

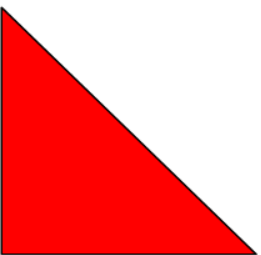
Hair color

“height”

All the traits on your checklist

Some “abilities” like running fast....

These are passed on by parents



What is DNA? What is the deal?

DNA is in the nucleus of most cells
DNA is a chemical made up of
“nucleic acids” (a protein).
This is a graphic representation of
what it looks like:



What is DNA? What is the deal?

The DNA is grouped into chromosomes.

Chromosomes contain a PART of your DNA. We have 23 pairs of chromosomes in the nucleus. Different organisms have other numbers of chromosomes



What is DNA? What is the deal?

The chromosomes have **SPECIFIC** instructions to make a “trait” (like hair color). That instruction for the trait is a **GENE**.

We all have **TWO** sets of instructions for a trait- one from mom and another from dad.

