

Trait Tracking



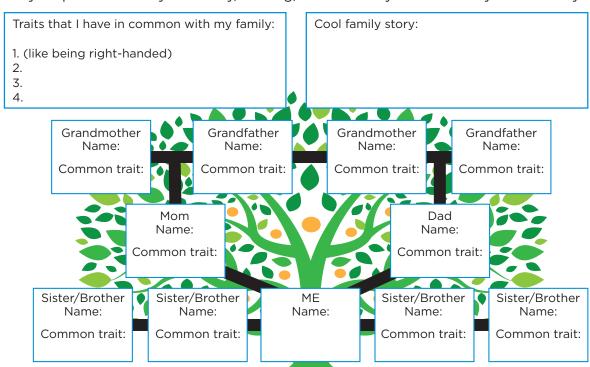
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- Humans share 99.9% of our DNA with one another. What makes us unique and different can be found in 0.1% of our DNA. No two people have exactly the same DNA, not even identical twins.
- DNA gives us our traits such as eye color and hair color. Most traits are passed down from parents, however, they can also skip a generation and come from your grandparents or even your greatgrandparents. You cannot have all of your mom's traits AND all of your dad's traits! You are born with some traits from each parent.
- Every living thing has traits that make it unique. That includes bacteria, fish, dogs, flowers and us.
- · Some traits are very helpful for animals in the wild. For animals, traits such as fur color, speed, and how well an animal can hear help it survive.

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Create a Family Tree

Like a detective, make a genealogy or history of yourself by tracking traits of your parents, grandparents and other family members going back in time. Family histories are full of secrets, tales of adventure and doing great things. Ask your parents to tell you a crazy, exciting, or brave story about a family member in your family tree.



My Family Tree

FTIND OUT MOR

- Genetics Home Reference Everything you wanted to know about your gene, genetic traits, genetic causes of health conditions and so much more https://ghr.nlm.nih.gov/primer
- Pictures of Traits You Can Compare Your Own To https://learn.genetics.utah.edu/content/basics/observable/
- Smithsonian Institution Genome: Unlocking Life's Code https://unlockinglifescode.org/explore/virtual-tour
- American Museum of Natural History https://www.amnh.org/explore/ology/genetics
- National Geographic Kids Guide to Genealogy by TJ Resler

HERE'S YOUR OWN TRAIT TRACKER

Start Trait Tracking in search of what you have in common and what makes you uniquely different from your family or friends.

	ME	TRAIT	• • • • • • • • • • • • • • • • • • • •	FAMILY C	or FRIEND	G	ENETIC
	Yes No			Yes	No	Trait	Dominant
		meaning that to have childre	nples are highly heritable, people who have dimples tend en with dimples - but not always			Curly Hair	
		a generation.	s are predictable and can skip bbes Attached?			Roll Tongue	Q
		*Fun Fact: If e detached. If th of the head, th	arlobes hang free, they are ney connect directly to the sides ney are attached. Earlobe nd shape are inherited traits.			Brown or Black Hair	
		Which Thuml *Fun Fact: 459 thumb over th	% of people place their right eir left, and 55% place their left			Straight Thumb	
		*Fun Fact: 709	Your Tongue? % of people can curl their ability to curl your tongue is			Cleft Chin	
		slightly higher 30% of people	in girls than in boys. e cannot curl their tongue.			Widows Peak	
	and only 7% are left-handed		% of people are right-handed			Has Dimples	
Question: How many traits do you have in common?		•	1			Has	
Question: List 2 or 3 traits which are different? Question: Who else in your family might have similar traits to you? Don't forget grandpa and grandma or your uncles and aunts.			1 2		1	Freckles	
			3. 1.	• • • • •		Detached Earlobe	
			2			Brown Eyes	
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GENETIC TRAITS

Trait	Dominant	Recessive	Trait	
Curly Hair			Straight Hair	
Roll Tongue			Can't Roll Tongue	
Brown or Black Hair		7	Blonde or Red Hair	
Straight Thumb	S	T	Hitch- hikers Thumb	
Cleft Chin			Flat Chin	
Widows Peak			Straight Hairline	
Has Dimples			No Dimples	
Has Freckles			No Freckles	
Detached Earlobe	1		Attached Earlobe	
Brown Eyes			Blue Eyes	







