

17/17 +1

Name: VALENTINE MARTINEZ

Date: 3/4/15 Per: 5

# Super Hero Project

**Helpful Sites:** marvel.com, marvelkids.com, DCcomics.com

## Day 1: Activity - Finding your super hero / villain

**Objective:** To determine the **Phenotype** and **Genotype** of a chosen super hero or villain.

### MATERIALS:

1. Internet/iPad access
2. Graphic Organizer
3. Pennies (2)

### PROCEDURE:

1) Students use the Internet to locate Marvel/DC Comic/Other sites that give backgrounds and physical characteristics of the super heroes or villains. **(Examples would include Wolverine, Cyclops, and Elektra to name a few).**

2) Students must search for a super hero or villain and develop a list of physical traits and powers that these super heroes/villains have that can be identified by physically looking at the characters (example: Eye color, Hair color, etc.) and also those unique to that individual (example: Superman's flight, Spiderman's wall crawling). Develop a list of ~~20~~<sup>25</sup> **minimum** physical traits (phenotype) and abilities that your character has and record it in the Super Hero Trait Chart Graphic Organizer.

Heads - Div  
tail Rec.

Super Hero/Villain Trait Chart—Example		
Physical Trait/Ability	Phenotype	Genotype
1) Hair	Blond	Hh
2) Eye color	Blue Eyes	hh
3) Super human strength	Super Strength	HH

3) Create a genotype for you super hero/villain. For each trait, you will pick a letter to represent that trait (example: Brown Hair = B). You will flip two

coins to determine if the trait is dominant or recessive. Heads will equal dominant, tails will equal recessive. If your coins land on 2 Heads, then you will have a complete dominant trait (example: Brown Hair = BB). If your coins land on 1 heads, and 1 tails, then you will have an incomplete dominant trait (example: Brown Hair = Bb). If your coins land 2 tails, then you will have a recessive trait (example: Brown Hair = bb). Record your genotype and phenotype in your Super Hero/Villain Trait Chart

Super Hero/Villain Trait Chart—Example		
Physical Trait/Ability	Phenotype	Genotype
1) Hair	Blonde	
2) Eye color	Blue	
3) Super human strength	Has Super Strength	

Questions:

1. What is the name of your Super Hero / Villain?

Spider Gwen

2. What website did you use to find your information?

Marvel Website.

3. What are 4 examples of your Super Hero's / Villain's PHENOTYPE?

my super hero has super human reflexes, claws on nails, shoots spider webs and night vision.

4. From the examples you provided, what are the GENOTYPES?

super human reflexes = tt  
 wall crawling = QQ  
 spider web shooting = Vv  
 night vision = Ss

5. From the examples you provided, what traits are dominant and what traits are recessive?

tt = recessive  
 QQ = dominant  
 Vv = incomplete dominant  
 Ss = incomplete dominant

Super Hero/Villain Trait Chart—Example		
Physical Trait/Ability	Phenotype	Genotype
01) Eye Color	Blue	A aa
02) Hair color	Blond	B bb
03) Hair type	Straight	C Cc
04) face shape	square	D Dd
05 tall	5'7	E EE
06 large	130lbs	F Ff
07 male/female	female	G gg
08 cleft chin	no	H HH
09 Widows peak	no	I ii
10 straight nose	straight	J Jj
11 large nose	small	K Kk
12 large ears	small	L LL
13 round eyes	almond	M MM
14 skinny/fat	skinny	N nn
15 eye shape	great	O Do
16 POWERS	technical skills	P pp
17 POWERS	Nail crawling	Q qQ
18 POWERS	Strength/durability	R Rr
19 POWERS	Night vision	S Ss
20 POWERS	Screening reflexes	T tt
21 POWERS	Spider-sense	U Uu
22 POWERS	Web-shooters	V Vv
23		W Ww
24		X xx
25		Y Yy

**A Superhero Family - Scoring Guide**

	5	4	3	2	1
# of Traits identified	-identified 25 traits	-identified 15 traits	-identified 13-14 traits	-identified 12 traits	- identified less than 12 traits
Creation of Superhero Phenotype	- identified 25 traits with a phenotype	-identified 15 traits with a phenotype	-identified 13-14 traits with a phenotype	-identified 12 traits with a phenotype	- identified less than 12 traits with a phenotype
Creation of Superhero Genotype	- identified 25 traits with a genotype	-identified 15 traits with a genotype	-identified 13-14 traits with a genotype	-identified 12 traits with a genotype	- identified less than 12 traits with a genotype

17/17

Name: MACRINA GARCIA  
Date: 3/4/15 Per: 1

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<b>Super Hero/Villain Trait Chart—Example</b>		
<b>Physical Trait/Ability</b>	<b>Phenotype</b>	<b>Genotype</b>
<b>1) Hair</b>		
<b>2) Eye color</b>		
<b>3) Super human strength</b>		

3) Create a genotype for you super hero/villain. For each trait, you will pick a letter to represent that trait (example: Brown Hair = B). You will flip two

coins to determine if the trait is dominant or recessive. Heads will equal dominant, tails will equal recessive. If your coins land on 2 Heads, then you will have a complete dominant trait (example: Brown Hair = BB). If your coins land on 1 heads, and 1 tails, then you will have an incomplete dominant trait (example: Brown Hair = Bb). If your coins land 2 tails, then you will have a recessive trait (example: Brown Hair = bb). Record your genotype and phenotype in your Super Hero/Villain Trait Chart

Super Hero/Villain Trait Chart—Example		
Physical Trait/Ability	Phenotype	Genotype
1) Hair	Blonde	
2) Eye color	Blue	
3) Super human strength	Has Super Strength	

Questions:

1. What is the name of your Super Hero / Villain?

~~Viper~~ and Venom.

2. What website did you use to find your information?

comicvine.com

3. What are 4 examples of your Super Hero's / Villain's PHENOTYPE?

~~Viper - 1) green hair 2) female~~

VENOM - 3) Ability to shape shift - dark no eyes (white) large tongue

4. From the examples you provided, what are the GENOTYPES?

chin/nh

Eye color) aa

Female/Male) gg

Face shape) Dd

5. From the examples you provided, what traits are dominant and what traits are recessive?

The chin, eye color and gender are recessive. and face shape is dominant.

Super Hero/Villain Trait Chart—Example		
Physical Trait/Ability	Phenotype	Genotype
01) Eye color	blue	Aa
02) Hair color	Reddish brown	B + Bb
03) Hair type	N/A	C + Cc
04) Face shape	oval	D) Dd
05) Tall	6'3"	E) Ee
06) large	260lb	F) + Ff
07) Gender	MALE	G) gg
08) cleft chin	yes	H) hh
09) widow's peak	N/A	I) x ii
10) straight nose	N/A	J) + Jj
11) large nose	N/A	k) + Kk
12) large ears	N/A	L) + Ll
13) round eyes	no tear drops	M) Mm
14) Powers	shape change	N) nn
15) Powers	takes her soul	O) Oo
16) skin color	black	P) Pp
17) tongue	4 ft.	Q) Qq
18)		R) Rr
19)		S) Ss
20)		T) Tt
21)		U) Uu
22)		V) Vv
23)		W) Ww
24)		X) Xx
25)		Y) Yy

A Superhero Family - Scoring Guide 7

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17/17

Name: Roxana Sedano

Date: 3-5-15 Per: 5

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Physical Trait/Ability	Phenotype	Genotype
1) Hair	Blonde	
2) Eye color	Blue	
3) Super human strength	Has Super Strength	

Questions:

1. What is the name of your Super Hero / Villain?

\*Wonder Woman\*

2. What website did you use to find your information?

DC comic.com

3. What are 4 examples of your Super Hero's / Villain's PHENOTYPE?

Black hair, Blue eyes, oval shaped face, Super strength.

4. From the examples you provided, what are the GENOTYPES?

Ba, Aa, DD, NN.

5. From the examples you provided, what traits are dominant and what traits are recessive?

oval shaped face and Super strength are dominant.



Super Hero/Villain Trait Chart—Example		
Physical Trait/Ability	Phenotype	Genotype
01) Eye color	Blue	A Aa
02) Hair color	Black	B Bb
03) Curly Hair	Curly Hair	C Cc
04) Round face	Oval face	D DD
05) Tall	Short	E Ee
06) Large	Petite	F Ff
07) Female	Female	G FF
08) left chin	No weird chin	H Hh
09) widows pick	Yes	I II
10) Straight nose	Straight nose	J Jj
11) Large nose	Small nose	K Kk
12) Large ears	Small ears	L LL
13) Round eyes	Stretch eyes	M MM
14) Power	Super strength	N NN
15) power	flexibility	O oo
16		P PP
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