**Your Genes**

|  |  |  |  |
| --- | --- | --- | --- |
| Trait | Allele | Your Phenotype | Your Possible Genotype |
| 1. Shape of face | Oval (O) dominant, square (o) recessive |  |  |
| 2. Cleft in chin | No cleft (C) dominant, cleft (c) recessive |  |  |
| 3. Hair curl | Curly (W):  homozygousWavy:  heterozygousStraight (w): homozygous |  |  |
| 4. Hairline | Widow peak (P) dominant, straight hairline (p) recessive |  |  |
| 5. Eyebrow shape | Separated (U) dominant, joined (u) recessive |  |  |
| 6. Eyelash length | Long (L) dominant, short (l) recessive |  |  |
| 7. Dimples | Dimples (D) dominant, no dimples (d) recessive |  |  |
| 8. Earlobes | Free lobe (A) dominant, attached (a) recessive |  |  |
| 9. Eye shape | Almond (R) dominant, round (r) recessive |  |  |
| 10. Eye colour | Brown (B) dominant, blue or green (b) recessive |  |  |
| 10. Freckles | Freckles (F) dominant, no freckles (f) recessive |  |  |
| 11. Tongue rolling | Roller (T) dominant, nonroller (t) recessive |  |  |
| 12. Interlaced fingers | Left thumb over right (Q) dominant, right over left (q) recessive |  |  |

**Celebrity Match Making**

Create Punnett squares for eye colour, hair curl, freckles and face shape with 3 different celebrity couples. What might their imaginary babies look like?

Celebrities (Or pick your own)

|  |  |
| --- | --- |
| **Female** | **Male** |
| **Kim Kardashian**Brown EyesStraight HairNo frecklesOval Face | http://i.dailymail.co.uk/i/pix/2015/07/26/15/2ADAD8B000000578-3175089-After_Kim_helped_Mario_reveal_all_her_top_make_up_tricks_includi-a-47_1437922320209.jpg | **Drake**Brown EyesCurly HairNo frecklesOval Face | http://bechollashon.org/img/news/08-10/drake_cropped.jpg |
| **Taylor Swift**Blue EyesCurly HairNo frecklesOval Face | http://all4desktop.com/data_images/original/4243883-taylor-swift.jpg | **Ryan Reynolds**Brown EyesStraight HairNo frecklesSquare Face | https://www.popworkouts.com/wp-content/uploads/2013/01/ryan-reynolds-face.jpg |
| **Beyoncé** Brown EyesStraight HairNo frecklesOval Face | http://kissthechaos.com/wp-content/uploads/2014/11/o-BEYONCE-GRAMMYS-PANTS-2013-facebook.jpg | **Justin Bieber**Brown EyesStraight HairNo frecklesSquare Face | http://i.axs.com/2016/07/promoted-media-optimized_5776cc52b3816.jpg |
| **Jennifer Lawrence**Blue EyesCurly HairFrecklesSquare Face | https://i.pinimg.com/736x/a2/69/02/a26902c4501c9ca03b87b4b12a15e5c0--jennifer-laurence-jennifer-oneill.jpg | **Harry Styles**Blue EyesCurly HairNo frecklesSquare Face | http://cdn-img.instyle.com/sites/default/files/styles/original/public/images/2017/04/040417-harry-styles-lead.jpg?itok=NxyyfgYi |
| **Katie Perry** Blue EyesWavy HairNo frecklesOval Face | https://img.buzzfeed.com/buzzfeed-static/static/campaign_images/terminal05/2012/7/27/11/is-katy-perry-actually-paula-deen-1-25863-1343402168-4_big.jpg | **Zayn Malik**Brown EyesStraight HairNo frecklesSquare Face | https://s-media-cache-ak0.pinimg.com/originals/58/1f/1c/581f1c81aa0a838a8031f8904fea346f.jpg |

**Dominance**

Eye Colour - Brown (B) dominant, blue or green (b) recessive

Hair Curl - Curly (W):  homozygous, Wavy:  heterozygous, Straight (w): homozygous

Freckles - Freckles (F) dominant, no freckles (f) recessive

Face Shape - Oval (O) dominant, square (o) recessive

First write down the celebrity’s possible genotype (BB, Bb or bb)

1) Couple \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Baby’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eye Colour

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| --- | --- | --- |
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|  |  |  |

Hair Curl

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Freckles

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| --- | --- | --- |
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|  |  |  |

Face Shape

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| --- | --- | --- |
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Describe the most likely baby.

2) Couple \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Baby’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eye Colour

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| --- | --- | --- |
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|  |  |  |
|  |  |  |

Hair Curl

|  |  |  |
| --- | --- | --- |
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|  |  |  |

Freckles

|  |  |  |
| --- | --- | --- |
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|  |  |  |

Face Shape

|  |  |  |
| --- | --- | --- |
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Describe the most likely baby.

3) Couple \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Baby’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eye Colour

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

Hair Curl

|  |  |  |
| --- | --- | --- |
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|  |  |  |

Freckles

|  |  |  |
| --- | --- | --- |
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|  |  |  |

Face Shape

|  |  |  |
| --- | --- | --- |
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|  |  |  |

Describe the most likely baby.