

Polygenic Inheritance

What is this...

-in regards to skin tone...if 3 gene pairs determine colour, the more “capital letters”(which are incompletely dominant) provided by the genes makes the skin darker

(ie) AABBCc is dark and aabbcc is the light

-in other organisms a gene can “MASK” another gene if... B = black b = brown

W = will mask colour gene

w = will NOT mask colour gene

(eg) wwBb = _____ colour (phenotype)

wwbb = _____ colour (phenotype)

however....

WwBb = _____ phenotype

Environment

- can affect phenotype of organism

-(eg) temp can change colour of certain flowers

(eg) leaves underwater different than leaves above water on same plant

(eg) lighten of hair, darker freckles from sunlight