

	TRAIT	GENOTYPE	HOMOZYGOUS HETEROZYGOUS	DOMINANT (type) RECESSIVE	PHENOTYPE
CHROMOSOME PAIR 1	FEET				
	MOUTH				
CHROMOSOME PAIR 2	EYE COLOR				
	ARMS				
CHROMOSOME PAIR 3	EARS				
	HEIGHT				
	NOSE COLOR				
CHROMOSOME PAIR 4	SEX				
	HAIR				

### ANALYSIS QUESTIONS

1. What dominant traits does your potato have?
2. What recessive traits does your potato have?
3. Did your potato have any chromosomal abnormalities? If yes, what trait(s) does this affect?

4. Which of the characteristics from the list are incompletely dominant?
5. What characteristic from the list is a sex-linked trait?
6. Is there another potato in this class that looks exactly like your potato?
7. Why are there so many different looking potatoes when there were only 2 parents and their alleles?
8. Pick 2 traits from your potato and predict what the parent's genotypes might have been for that trait. You will need to look around the room to see what traits others groups had. Work the 2 Punnett squares in the space below.

1.

2.

9. What are the limits of the model in demonstrating heredity?