EDPuzzle: Genetics & Heredity Name	
Video 1: Heredity Basics - Use the information to help you fill in the blanks and	complete the video quiz.
1. Who is the "Father of Genetics"?	
2. What type of plants did he study?	
3. When purebred yellow plants were crossed with purebred green ones, which was called the trait.	s, the offspring were all
4. When the new offspring were crossed, the next generation had both The green seeds had the trait.	& seeds.
5. Different variations of a gene are called	
6. Gene pairs with two capital letters (YY) or two lowercase letters (yy) are called _	gene
pairs, while those with two different letters (Yy) are called gen	ne pairs.
7. The gene letters (,, &) are called a, whi green) is called a	ile the appearance (yellow or
8. A is used to determine the results of a cross betw	een two organisms.
Video 2: Punnett Square - Use the information to help you fill in the blanks and quiz.	d complete the video
1. DNA makes up which are inherited from the organism's	·
2. An is a form of a gene and is often represented by a	, such as a
capital H for the allele and lowercase h for the	allele.
3. The genotype for a hairless guinea pig is, while one with hair could be eith	ner or
4. The genotypes for the go on the top and left side of the I	Punnett square, while
the genotypes inside the squares represent the or babies.	
5. If the parents are both Hh (heterozygous dominant),	
(a) What percent of the offspring will have each genotype? $HH = \\% Hh = \$	% hh =%
(b) What percent of the offspring will have each phenotype? Hairy =%	Hairless =%
6. The results shown in Punnett squares are or the proba will happen.	ability that something