## Selection Cheat Sheet

## Cheatography

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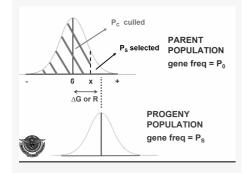
ΔG or R is due to:	
1. artificial selection among ADULTS of parent generation	
2. natural differences in FERTILITY among individuals of PARENT generation	
3. natural differences in VIABILITY among individuals of OFFSPRING generation	
response to selection (R)	= change in population mean due to selection
	= mean phenotypic value of offspring generation — mean of whole parental generation before selection
measure of selection applied = selection differ- ential = S	= mean phenotypic value of individuals selected as parents

= expressed as a deviation from the population mean

## Selection

process in which certain individuals in a population are preferred to others for the production of the next generation		
does not create new genes		
AIM:	to increase f (desirable genes)	
	to decrease f (undesirable genes)	
FORMS:	on the basis of phenotype	
	on the basis of breeding value	
Basic Effect:	on the basis of <b>breeding value</b>	
	changes the array of gene frequencies (although almost completely hidden)	
	→ can be observed through changes in the MEAN	
How to Describe Change:	compare successive genera- tions at the same point in the life cycle of the individuals	

## How to Describe Change:





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