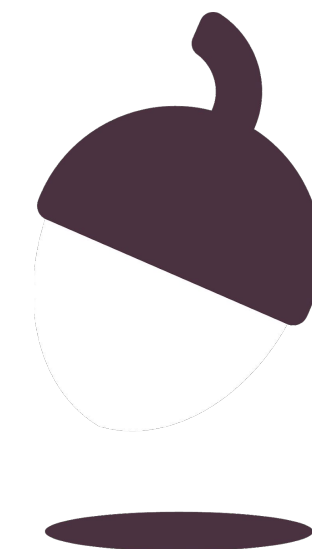


Combined Science - Biology - Key Stage 4

# Inherited Disorders Part 1 - Foundation

Mrs Gibbs



**OAK**  
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ACADEMY

**Inherited disorders are passed from \_\_\_\_\_ to \_\_\_\_\_. They are caused by \_\_\_\_\_ in alleles.**



# Independent task

- What is the probability the offspring will have polydactyly?

		Male	
		$p$	$p$
Female	$P$		
	$p$		

- Genotypes of parents:
- Heterozygous or homozygous?
- Phenotypes of parents:
- Percentage of offspring with polydactyly:
- Ratio of offspring with polydactyly:



# Independent task

- What is the probability the offspring will have cystic fibrosis (CF)?

		Male	
		f	f
Female	F		
	F		

- Genotypes of parents:
- Heterozygous or homozygous?
- Phenotypes of parents:
- Percentage of offspring with CF:
- Proportion of offspring with CF



Inherited disorder	Dominant or recessive?	Disorder of	Symptoms	Genotype of sufferers
Polydactyly		Fingers and toes		_____ or _____
Cystic fibrosis				ff

