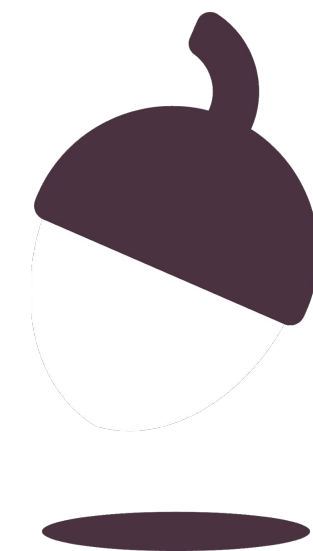


Combined Science - Biology - Key Stage 4

# Inherited Disorders Part 1 - Higher

Mrs Gibbs



**OAK**  
NATIONAL  
ACADEMY

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



# Independent task

- What is the probability the offspring will have polydactyly if the mother is homozygous without polydactyly and the father is homozygous with polydactyly?
  - Genotypes of parents:
  - Phenotypes of parents:
  - Percentage of offspring with polydactyly:



# Independent task

- What is the probability the offspring will have cystic fibrosis (CF) if the mother is homozygous with CF and the father is homozygous without CF?
  - Genotypes of parents:
  - Phenotypes of parents:
  - Percentage of offspring with CF:



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

