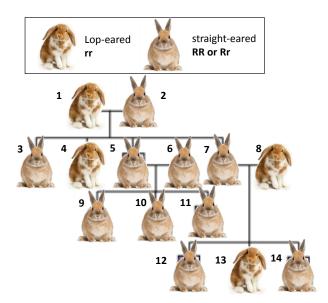


## Science 1.9 AS 90948 Genetic Variation

## Predicting genotypes from a pedigree chart

## Success Criteria: complete each level before moving onto the next

- Basic: states one allele is inherited from each parent and that a dominant homozygous parent cannot have lop-eared offspring.
- o **Proficient:** explains that an individual with lop-ears must have 2 recessive alleles and an individual with straight-ears must have at least 1 dominant allele and relates it to specific individual
- Advanced: Justifies the genotype of individuals by using the predicted genotype of both parents and offspring. Can use Punnett squares to give further explanation



Give the genotype of rabbit 7 and discuss how you were able to predict that based on the rabbits parents, 1 and 2, as well as the offspring, 12, 13 and 14. Give any further evidence to explain any of the previous rabbit's genotypes. Use Punnett squares to show the possible offspring for rabbit 1 and 2, and for rabbit 7 and 8.