## Genetic inheritance

- Hereditv
- Passing of traits to offspring from its parents or ancestors. \_
- Homologous chromosomes are preset in zygote after fertilization
- Similar genes are locate at the same locations
- Allele -> form of a gene \_
- Gregor Mendel to
- Gregor mendel . 19 th Austrian Monk \_
- The three laws of inheritance -
- Independent assortment
- Segregation -
- Dominance \_
- Dominant and recessive alleles
- There is always a dominant and a recessive allele for every single characteristic -
- Dominant -> capital letter
- Recessive -> smell letter \_
- The dominant allele determines the organism's appearance \_
- Example -> brown and blue eyes \_
- Parents give one allele to the offspring ,mm,
- IT is all about probabilities
- Punnett square \_
- Genotype versus phenotype
- \_ Homozygous versus heterozygous
- Karyotype
- otesale.co.uk osomes in the Aucleus Number and appearance of thom
- 46 chromosomes in 13 wirs
- 44 autosco a buromosomes
- 2 Sex a chromosom s

## xx or xy

- The father determines the gender of the child.
- Autosomal chromosomes \_> normal traits \_
- One allele from both father and mother
- Sex chromosomes -> sex-linked traits
- Gene is local

Autosomal recessive