**Knowledge organiser for KS5 Biology Genetic Diversity and adaption at Saint Ambrose College 2020+**

**What is covered in this unit?**

Mutations; Meiosis and genetic variation; Genetic diversity and adaptation; Types of selection, directional selection, natural selection

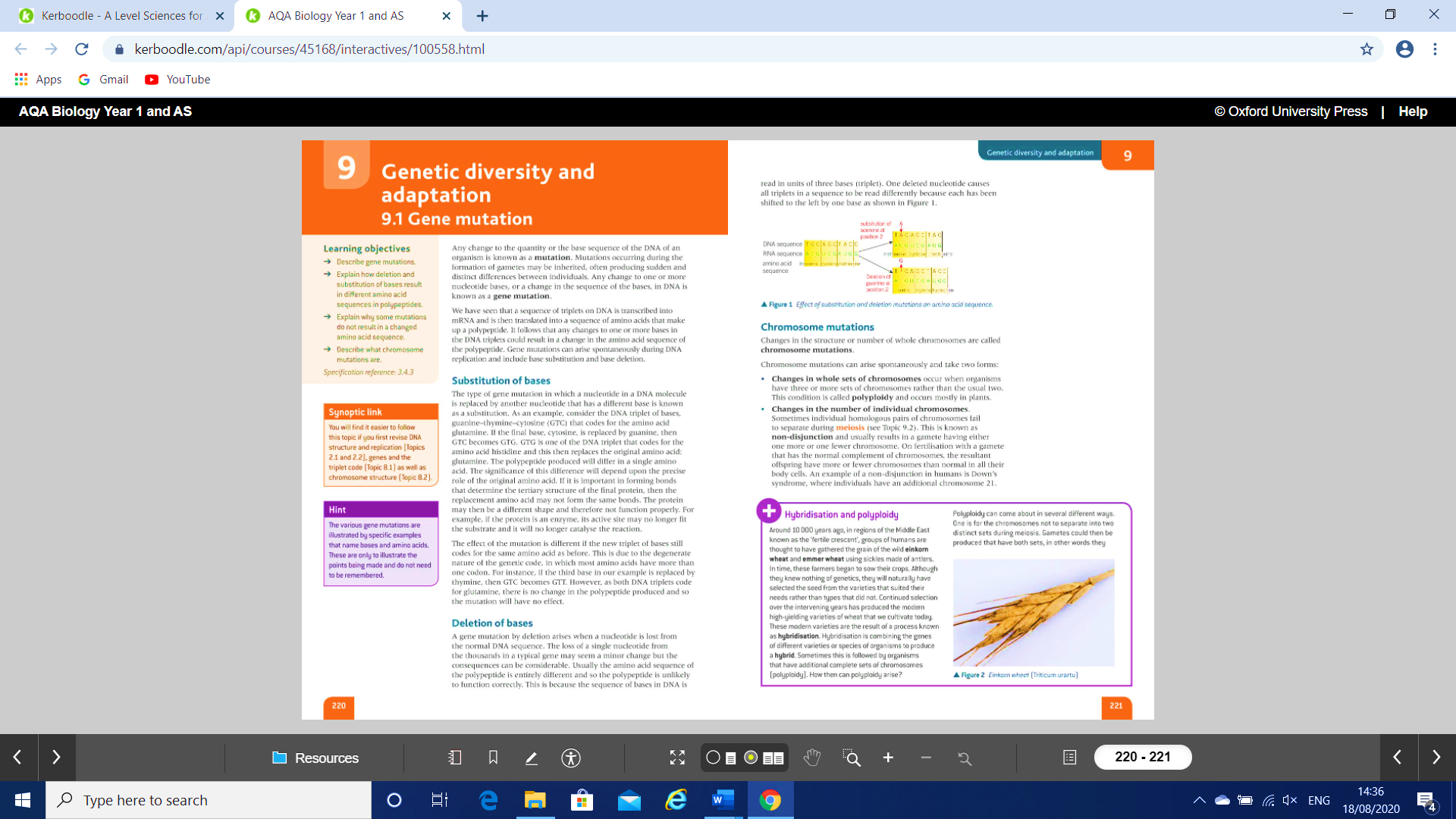
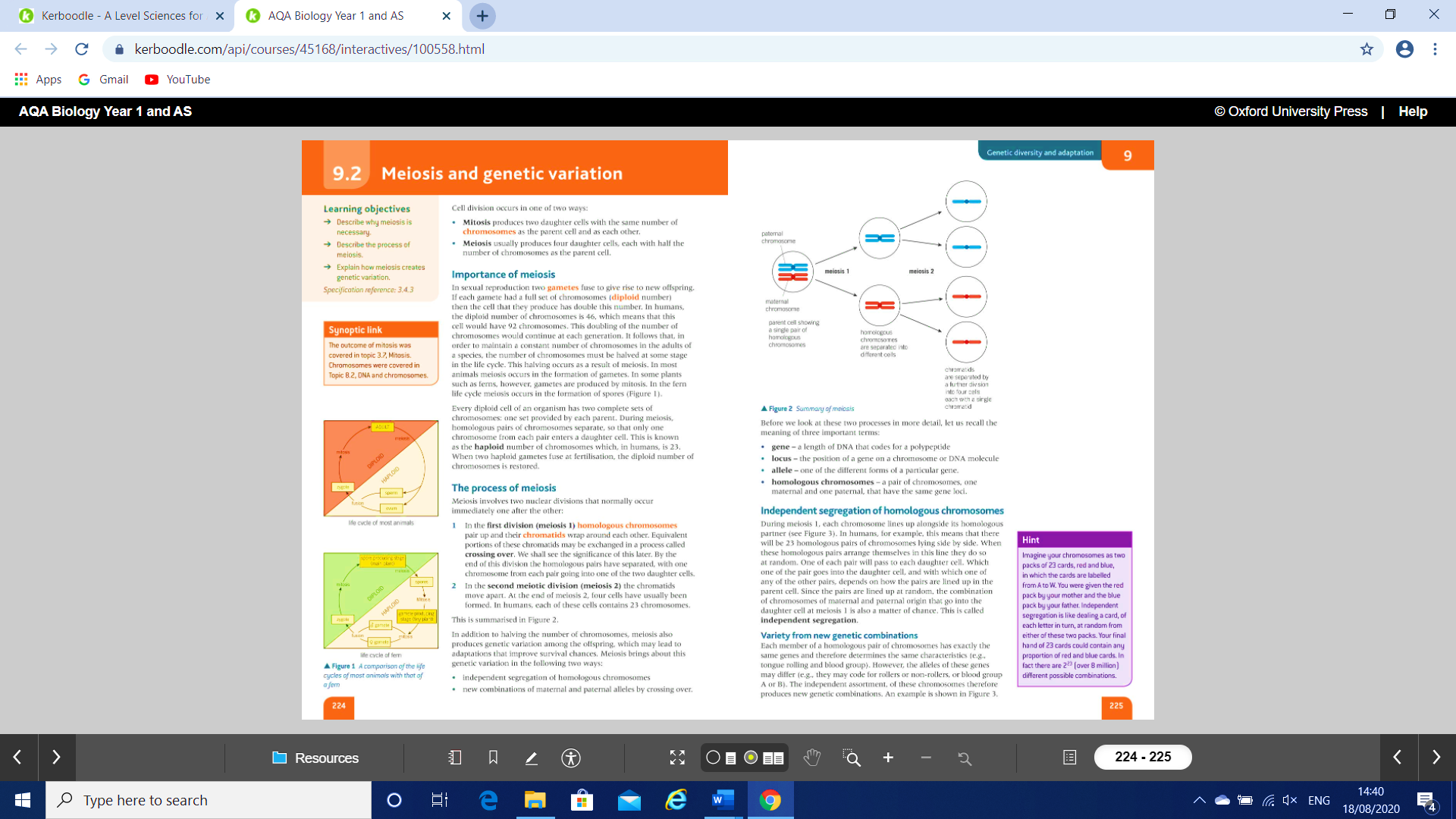
**Key vocabulary**

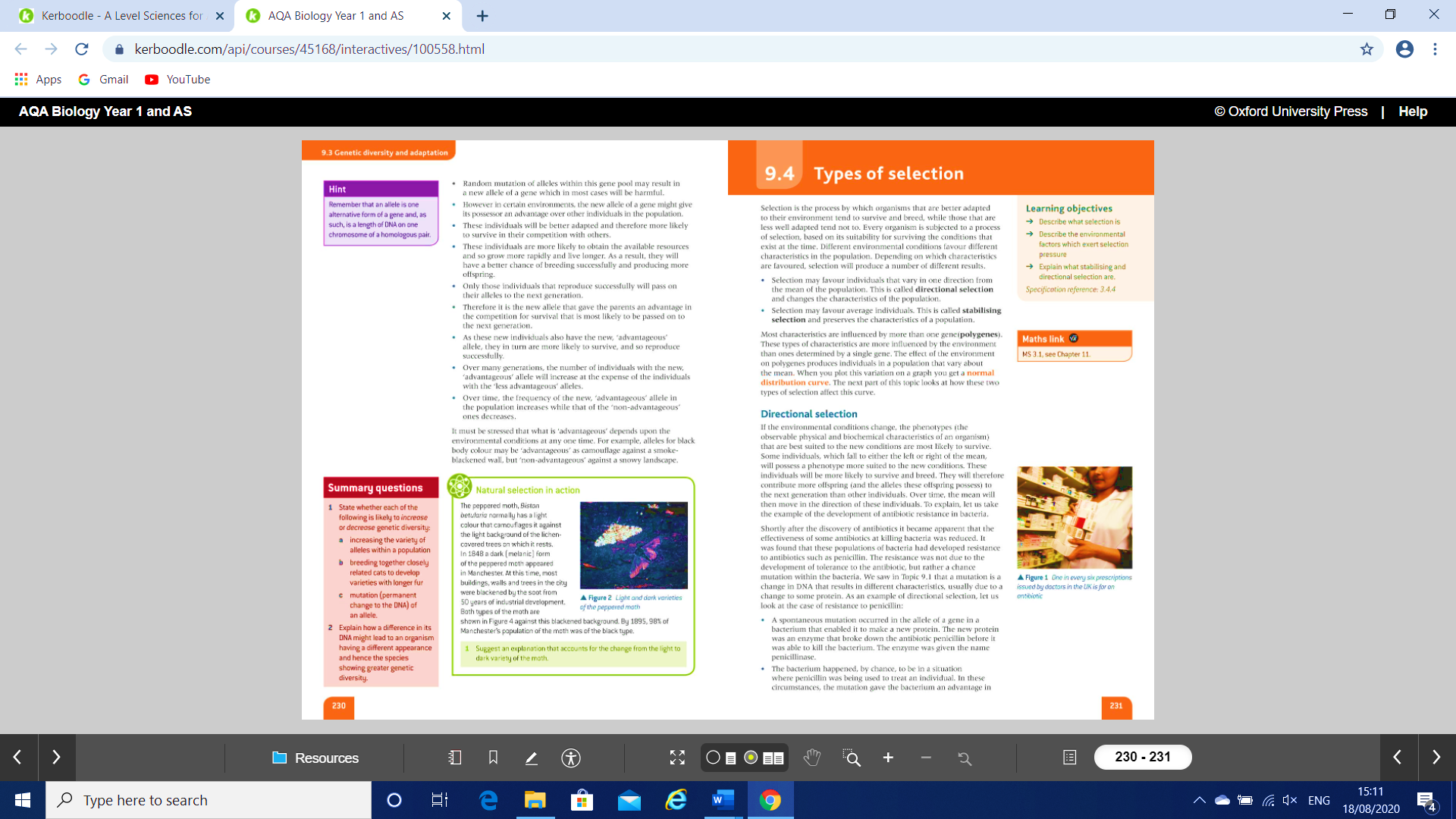
Mutation – any change to the quantity or the base sequence of the DNA of an organism

Mitosis – produces two daughter cells with the same number of chromosomes as the parent cell and as each other

Meiosis – usually produces four daughter cells, each with half the number of chromosomes as the parent cells

Genetic diversity – the total number of different alleles in a population

**Key facts-**



**Possible homework tasks I Stretch & challenge (wider reading/independent work)**

H/W: including project, Kerboodle, Kahoot, Exam Pro Stretch: modelling tasks, Biological Science Review research, Oxford Uni