

Lesson 2- Meiosis

Lesson outcomes

- Explain the different outcomes of meiosis.
- Complete diagrams showing the chromosome content of cells after the first and second meiotic division, when given the chromosome content of the parent cell.
- Recognise where meiosis and mitosis occurs when given information about an unfamiliar life cycle.

Watch the following video and make to go give you an overview of meiosis

<https://www.youtube.com/watch?v=Uyf03tEjdvE>

On connect in the year 1 folder find the 'mitosis and meiosis folder'.

Open the power point in the topic resources folder.

Read through each page carefully first. Everything in the booklets is required for your exams.

Page 13- Complete recap activity and check your answers using slide 31 of the ppt.

Page 13-- Complete question on page 13 using the slides on the ppt to help.

Page 14-15- Using ppt slides 36-44 to fill in information on the events in the different stages of meiosis.

How meiosis leads to variation

Lesson outcomes

- Explain how meiosis results in variation.
- Explain how random fertilisation of haploid gametes further increases genetic variation within a species.
- Explain what a non-disjunction event is and how it occurs.
- Compare and contrast gene and chromosomal mutations.

Read through each page carefully first. Everything in the booklets is required for your exams.

Page 15-16- Use ppt slides to help you answer the questions.

Extension task: Read through the information on 'hybridisation and polyploidy' in the Toole and Toole textbook on pages 221-223 and complete the questions. You can check your answers when you're done on 622.