A4.1 Evolution and speciation (HL)

What the Cell · DP Biology · note-taking sheet · HL statements A4.1.8–11

Name _____ **Date** _____

How to use this sheet: go through the slides and videos with it, then close them and write from memory. Use your own words and add page numbers from the book (pp. 151–155) where you want more detail.

Guiding questions. What evidence supports evolution? What do analogous and homologous structures show about what organisms share and how they differ?

A4.1.8–9 Speciation and adaptive radiation

Compare allopatric and sympatric speciation. One example each of geographic, temporal and behavioural isolation. What adaptive radiation is and why it raises biodiversity.

A4.1.10–11 Barriers and polyploidy

Barriers before and after mating. Flow chart of speciation by hybridization and polyploidy.

Before you finish

Tick the ones you can explain without notes. Circle anything to ask about.

- ☐ Allopatric
- ☐ Sympatric
- ☐ Types of isolation
- ☐ Adaptive radiation
- ☐ Courtship
- ☐ Sterile hybrids
- ☐ Polyploidy
- ☐ Persicaria

What the Cell. Original material written for this course.