D4.1 Natural selection (HL)

What the Cell · DP Biology · note-taking sheet · HL statements D4.1.9–15

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. 790–797) where you want more detail.

Guiding questions. What can change allele frequencies in a population? What part does reproduction play in natural selection?

D4.1.9–12 Gene pools and selection

Gene pool and allele frequency. One human example of different frequencies. Sketch the three patterns of selection.

D4.1.13–14 Hardy-Weinberg

Write both equations and what each term means. Copy out one worked example. List the conditions.

D4.1.15 Artificial selection

Two examples, and how it differs from natural selection.

Before you finish

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

- ☐ Gene pool
- ☐ Allele frequency
- ☐ Isolated populations
- ☐ Three patterns of selection
- ☐ p and q
- ☐ Hardy-Weinberg conditions
- ☐ Artificial selection