A3.2 Classification and cladistics (HL)

What the Cell · DP Biology · note-taking sheet · HL statements A3.2.1–9

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. 125–137) where you want more detail.

Guiding questions. Which tools help us sort organisms into taxonomic groups? How does cladistics differ from traditional classification?

A3.2.1–3 Classification

Why classify? The seven ranks. Why ranks may not match evolution. Advantages of classifying by ancestry.

A3.2.4–7 Clades and cladograms

Define clade. How the molecular clock works and its limits. Draw a cladogram and label the root, a node and a terminal branch.

A3.2.8–9 Testing classifications; three domains

The figwort case. The rRNA evidence for three domains, with one difference between each pair of domains.

Before you finish

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

- ☐ Binomial names
- ☐ Ranks
- ☐ Clade
- ☐ Molecular clock
- ☐ Building cladograms
- ☐ Root, node, terminal branch
- ☐ Figworts
- ☐ Three domains