D3.2 Inheritance (HL)

What the Cell · DP Biology · note-taking sheet · HL statements D3.2.16–21

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. 747–759) where you want more detail.

Guiding questions. What patterns of inheritance are seen in plants and animals? What happens at the molecular level to produce these patterns?

D3.2.16–17 Dihybrid crosses

How do segregation and independent assortment happen in meiosis?

Punnett grid for AaBb × AaBb, and for AaBb × aabb:

D3.2.18–20 Gene loci, linkage and recombinants

Two human genes, their loci and products:

Draw linkage notation. Explain why linked genes give few recombinants.

D3.2.21 Chi-squared

Steps of the test, the formula, and how to decide:

Before you finish

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

- ☐ Segregation
- ☐ Independent assortment
- ☐ 9:3:3:1
- ☐ 1:1:1:1
- ☐ Gene loci
- ☐ Linkage
- ☐ Notation
- ☐ Crossing over
- ☐ Recombinants
- ☐ Null hypothesis
- ☐ Degrees of freedom
- ☐ Critical value