Worksheet 2.10.4a Looking inside the nucleus

page 1/2

1 Insider information >

Work with a partner to complete this task.

a) Describe:

i) where the nucleus can be found

ii) the structure of the nucleus

iii) the structure of chromosomes

iv) why genes are so important.

b) Draw a labelled diagram to show the relationship between the nucleus, chromosomes, genes and DNA.

Worksheet 2.10.4a Looking inside the nucleus

page 2/2

2 The miracle molecule >>

You can work with a partner for this task.

Explain the structure of DNA, drawing a labelled diagram to help your explanation.

3 Who did what? >>>

Work collaboratively in a small group to complete this task.

a) Research the history of the discovery of DNA, from the work of Friedriech Miescher to Watson and Crick, and analyse the role that each scientist played.

b) Present your work by completing one of the following activities to explain the history of the discovery of DNA:

i) create biographies of the prominent scientists involved

ii) produce a poster display

iii) produce a timeline.

c) Using your research, decide which pieces of information show:

i) how the teams contributed

ii) how the individual teams were held back from making the discovery alone.