**Review Worksheet: Recombinant DNA Technology Name: ……………………………..**

*Do these questions, using your learning resources. Look at the “marks” to give you an idea of the level of detail required in the response (formative only – does not count towards your grade). At the end, mark your work, correct it, and fill in the reflection section. Questions marked \* require you to use reasoning, inferring and application of knowledge, or perhaps extra research to get the answer. It won’t be right there in the text.*

1: What is a gene?

(2 marks)

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2: What are the four bases that make up the DNA code?

(4 marks)

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3: Which bases are able to pair together?

(2 marks)

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4: What are Restriction Enzymes?

(2 marks)

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5: Restriction enzymes cut in a specific location. What is it called?

(1 mark)

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6: When creating recombinant DNA, how do scientists ensure that the two pieces of DNA they are combining will fit together?

(3 marks)

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7: Once the two pieces of DNA are fitted together, what makes the connection permanent?

(2 marks)

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8: Recombinant DNA technology allows scientists to insert the gene for human insulin production into a bacterium. Which part of the bacterium is used for this procedure?

(2 marks)

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9: Describe in detail the process involved in producing synthetic Growth Hormone using recombinant DNA technology.

(18 marks)

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Go back and mark your work using the marking key provided. What score did you get? /36

*I included enough detail in my answers.*



*I was able to find information in the text/powerpoint presentation.*

*I was able to reason and infer where the information wasn’t directly in the text (questions with \*).*

*I marked my work and wrote down any answers where I missed marks.*