**Biology Revision: Health and Pathogens**

Mastery Matrix Points

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| Define ‘*health*’ |
| List factors that affect mental and physical health |
| Define ‘*pathogens*’ and explain the difference between ‘*communicable’* and ‘*non-communicable’* diseases |
| Explain how ‘*viruses’*, ‘*bacteria’*, ‘*protists’* and ‘*fungi’* are spread in animals and plants |
| Describe the how bacteria and virus cause problems within the body |
| State 4 ways to reduce or prevent the spread of communicable diseases |
| Describe three viral diseases in details – the effects, how they are spread, how people are trying to reduce its impact (Measles, HIV and Tobacco Mosaic Virus) |
| Describe two bacterial diseases in detail – the effects, how they are spread, how people are trying to reduce its impact (Gonorrhoea and Salmonella) |
| Describe one fungal disease in detail – the effects, how it is spread, how people are trying to reduce its impact (Rose Black Spot) |

Key Knowledge

Health –

Pathogens –

Factors that affect mental and physical health:

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Communicable disease –

Non-communicable disease –

Four types of pathogen

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Bacteria make us feel ill because…

Viruses make us feel ill because…

Ways diseases can be spread:

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Ways to prevent the spread of diseases:

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Understanding and Explaining

1. Compare the structure and size of viruses and bacteria.
2. Describe how communicable diseases can be spread between organisms.
3. Explain how the prevent the spread of an epidemic, such as swine flu.
4. Complete the table about the diseases.

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| *Disease* | *Type of pathogen* | *How is it spread* | *How can it be prevented?* | *Can it be treated? How?* |
| Measles |  |  |  |  |
| HIV |  |  |  |  |
| TMV |  |  |  |  |
| Gonorrhoea |  |  |  |  |
| Salmonella |  |  |  |  |
| Rose black spot |  |  |  |  |