



# LEARNING JOURNEY

## Biology

### Topic 6- Health and Disease

This module continues your learning journey from the previous module on Non-Communicable Disease. This module looks at how disease is caused by different pathogens and how they actually make you unwell. From this you will develop a understanding on how we fight diseases through both natural methods and treatment. The final part of the module is about plant disease which many often don't consider but has a large impact on our ability to produce crops and feed the world.

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#### Communicable Disease Type and Spread

##### Spreading of Disease

You will learn how pathogens are spread from person / animal to person and identify methods to prevent this infection

##### Viral Disease

You will learn about viral diseases including measles and HIV. You will understand why they are difficult to treat.

##### Bacterial Disease

You will learn about bacterial diseases including salmonella and gonorrhoea. You will learn about symptoms and treatment

#### Fighting Disease

##### Antibiotics

You will learn about how antibiotics were discovered and why they are an effective drug against bacteria but not viral infections.

##### Antibiotic Resistance

You will learn about antibiotic resistance and how it has evolved due to human usage. This will introduce you to MRSA.

##### Human Defence

You will learn about how humans prevent pathogens entering the body and then how the immune system fights off disease if they do.

#### VOCABULARY

Pathogen  
Communicable  
Vaccination  
Double-blind Trial  
Antigen

Transmission  
Inhibition  
Resistant  
Phagocyte

##### Vaccinations

You will learn about how artificial immunity is used to fight disease and why vaccinations are useful in herd immunity.

##### Stopping the Spread

You will learn about how we try to prevent the spread of disease and compare methods to look at the difference in impact.

##### Drug Development

You will learn about the stages in medical drug development in ensuring drugs that are effective, safe and have the correct dosage are developed.

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You will learn about plant disease and how this impacts plants with focus on Rose Black Spot and other common diseases.



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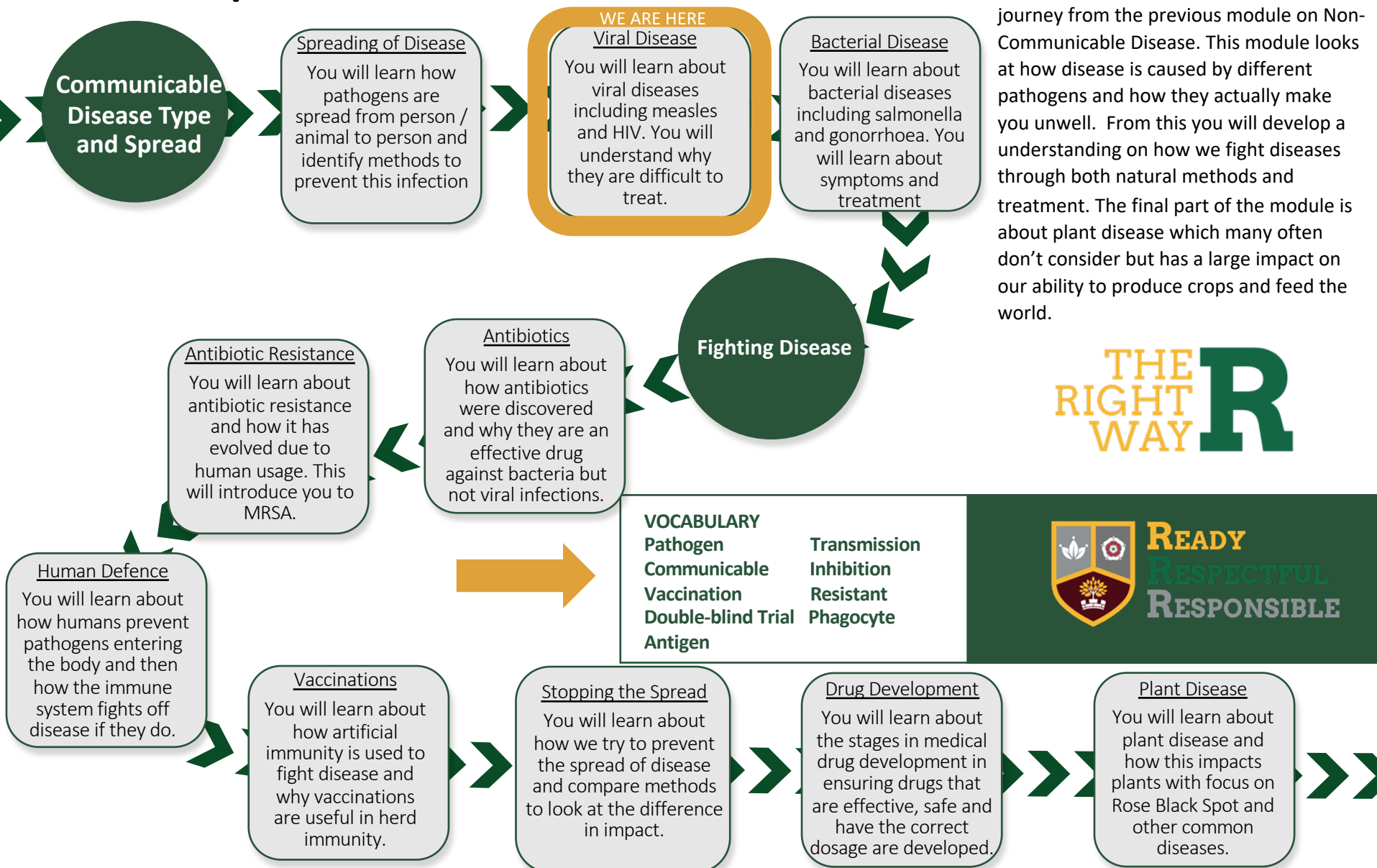
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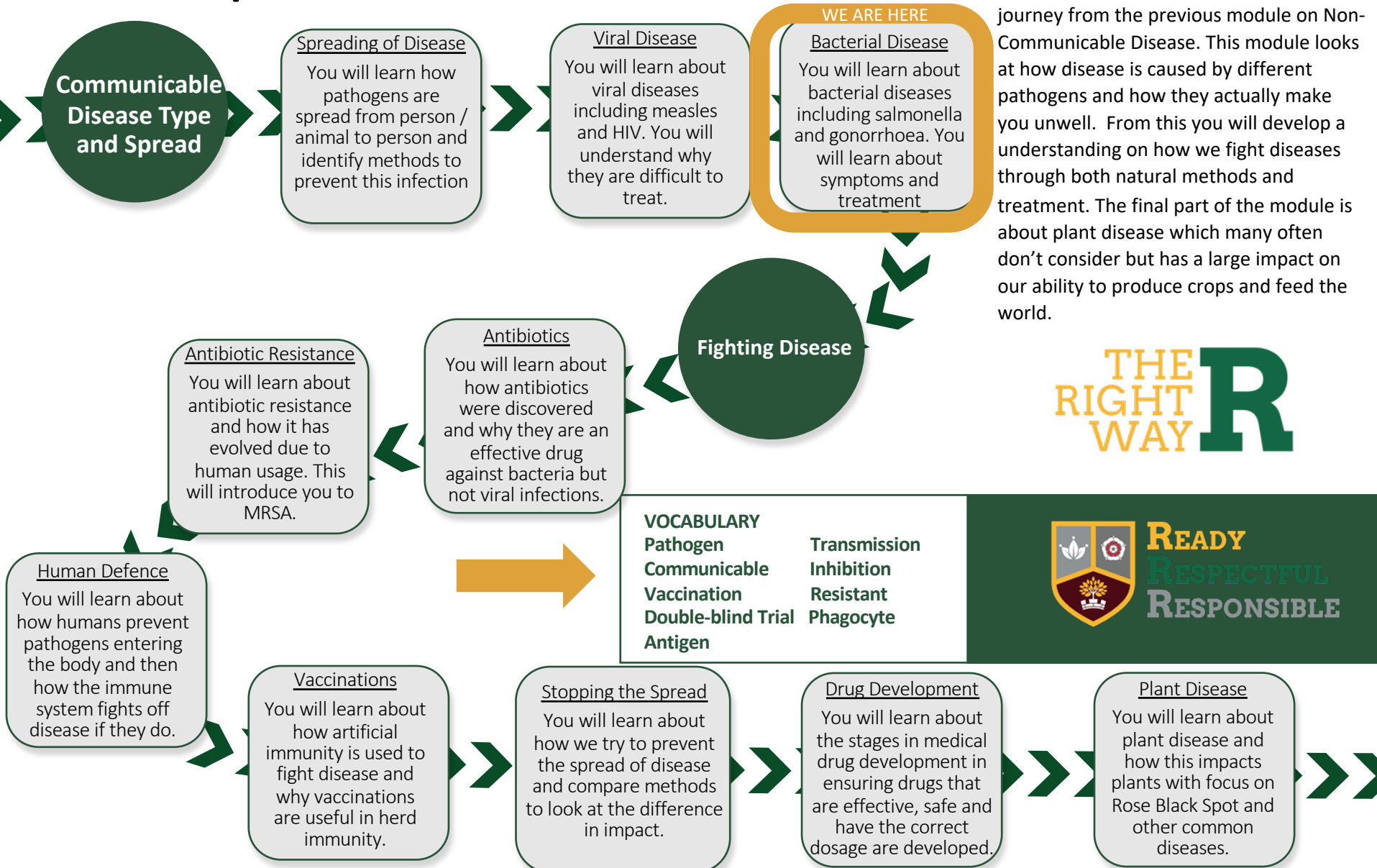
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