



LEARNING JOURNEY

Biology

Topic 1- Cells

Cells

Microscopes and magnification

In this lesson you will learn how a microscope works as well as an equation used to calculate magnification

Using microscopes

In this lesson you will improve your practical skills by choosing appropriate apparatus to view an onion cell

Plant and animal cells

In this lesson you will learn the structural similarities and differences between animal and plant cells as well as organelle functions

This module continues your learning journey from the KS3 by deepening your understanding of cells

This module looks at the organelles that plants, animals and prokaryotic cells possess and their function.

The final part of the module is about the development of techniques used to clone organisms and develop stem cell therapy.

Cell division

Specialist animal cells

In this lesson you will learn how specific animal cells are adapted for their function

Prokaryotic cells

In this lesson you will learn the similarities and differences between prokaryotic and eukaryotic cells

THE RIGHT WAY R

Cell division

In this lesson you will learn how mitosis is used to produce additional cells and for growth and repair of damaged cells

VOCABULARY

Organelle
Eukaryotic
Prokaryotic
Mitosis

Undifferentiated
Resolution
Magnification
Stem Cells

Growth and differentiation

In this lesson you will learn how animal and plants grow and how it is possible to clone both

Stem cells

In this lesson you will learn how stem cells can be used in medicine and how the two types of stem cells differ

Ethics of stem cells

In this lesson you will build your critical thinking skills to justify whether the use of stem cells is ethical



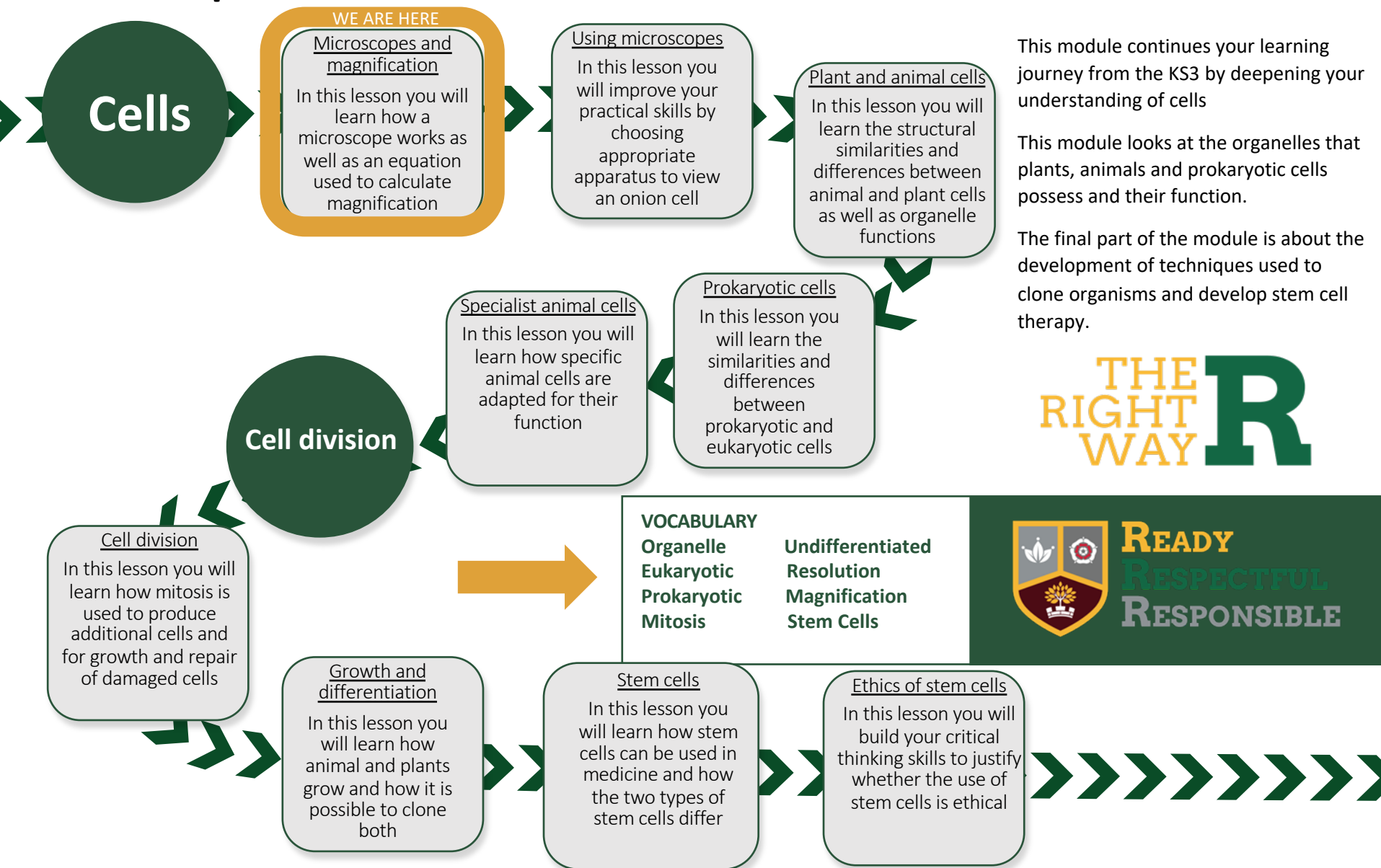
READY
RESPECTFUL
RESPONSIBLE



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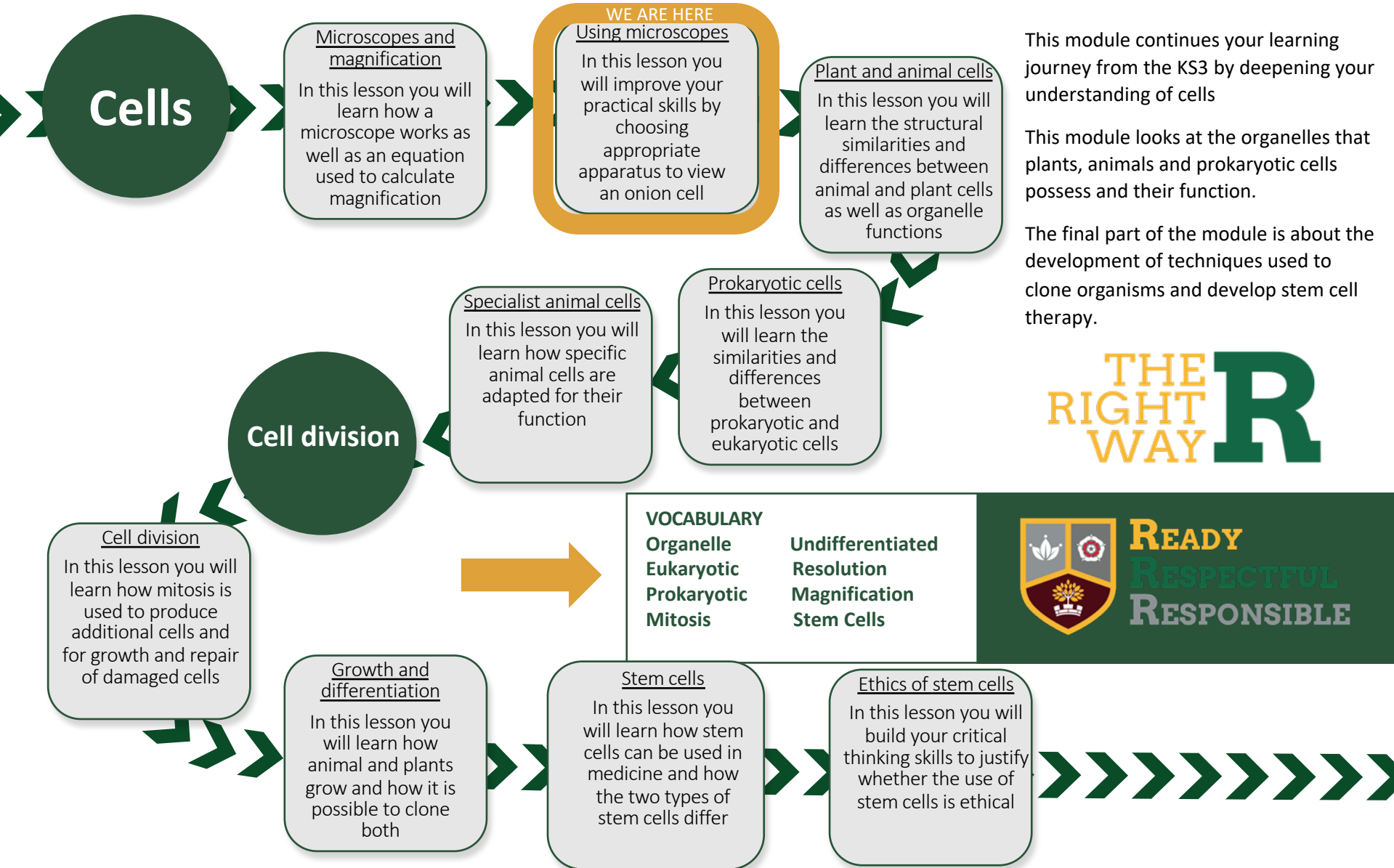




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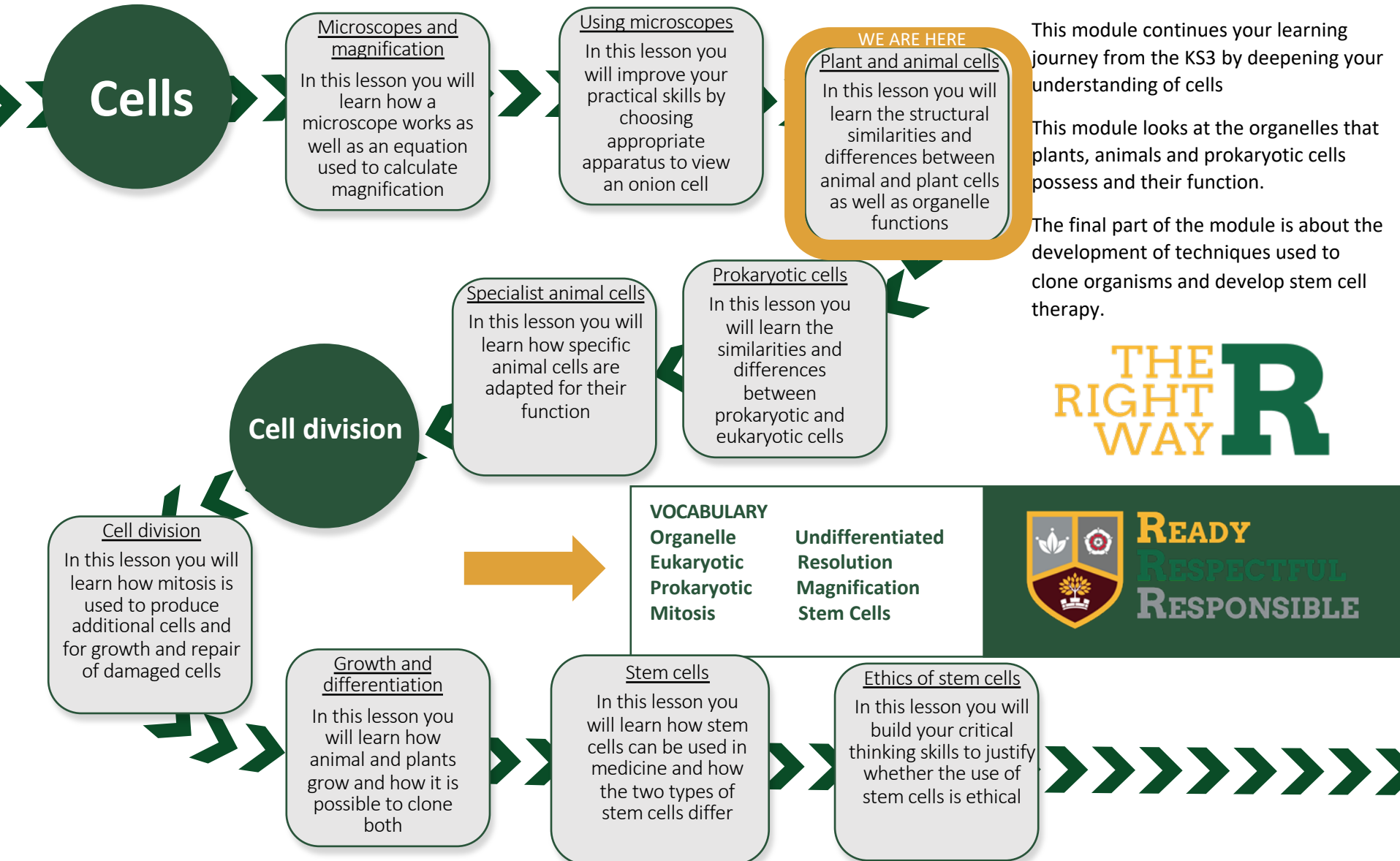




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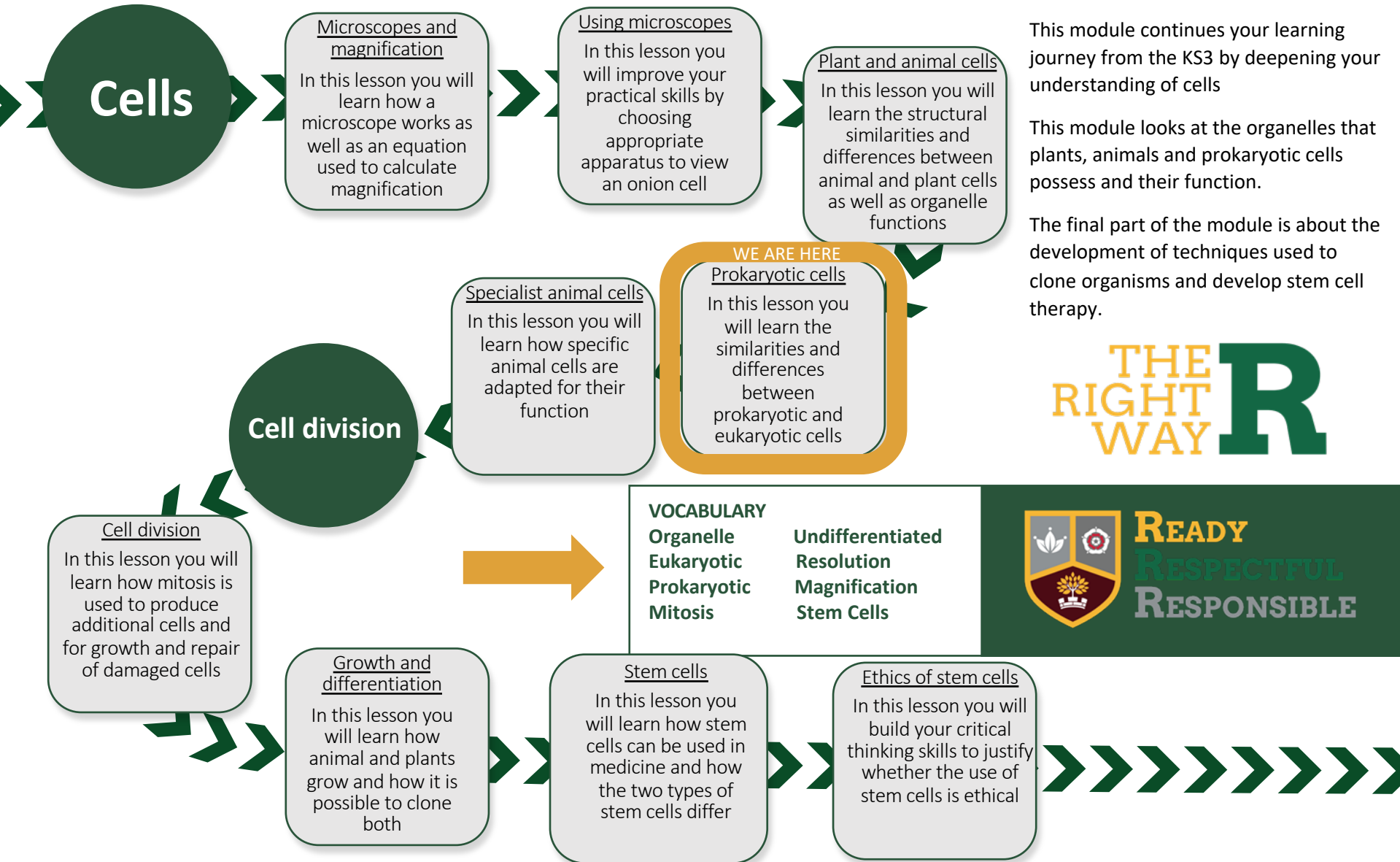




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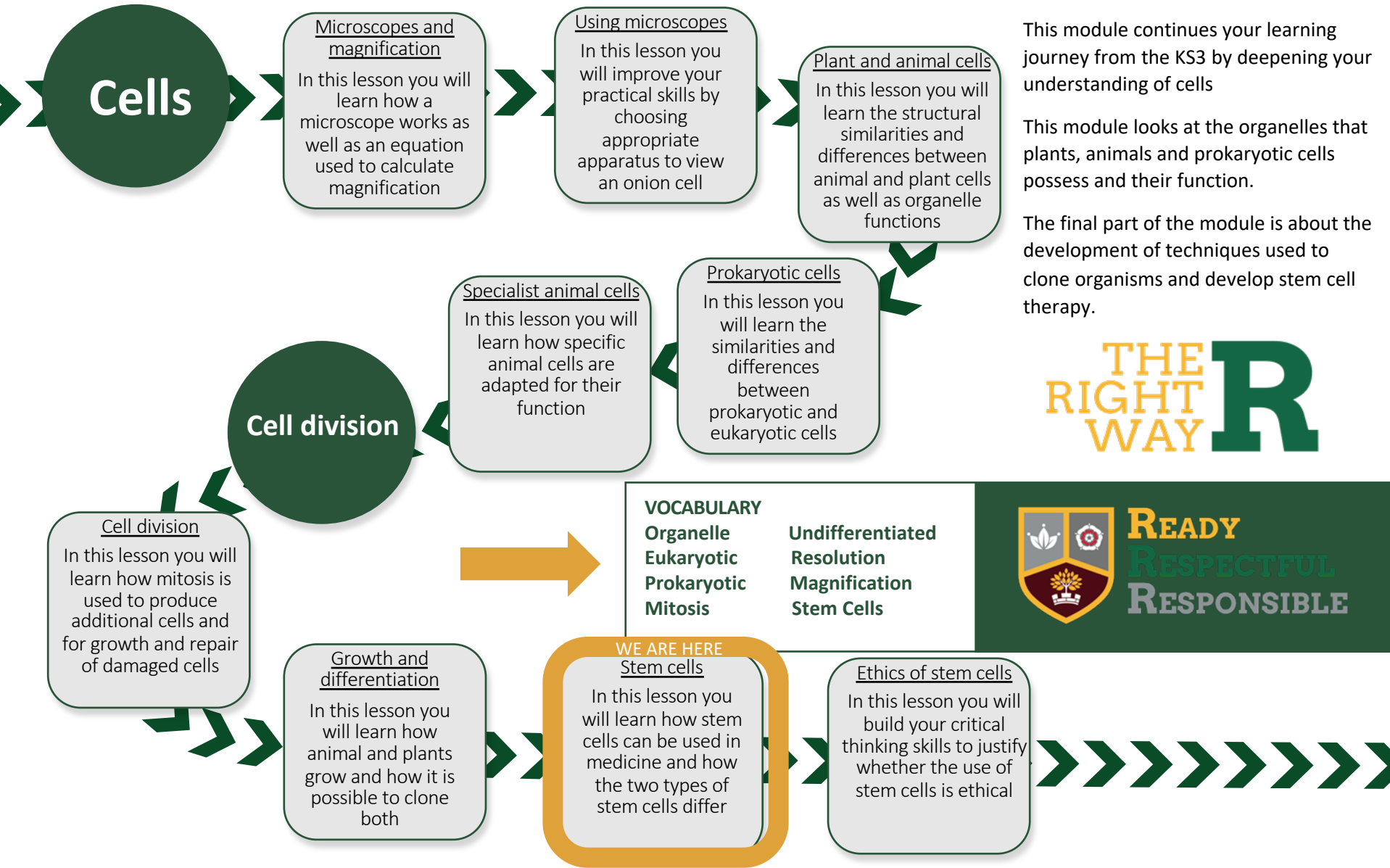
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