

# Syllabus

## PLAR Prep – Science – Cell Cycle (Task 1)



**1 Units:** 3 lessons, 2 videos      **Estimated time:** 3-5 hours

**OALCF Levels:** A1.2, A2.2, A3

**Suggested Milestones:** 3 or 4, 10 or 11, 14

### Course Overview

In this course, you will study the characteristics of the cell cycle and reproduction and the effects viruses have on the body.

### Unit 1: Cells

#### Methods of Science

(35 slide tutorial, and mastery test)

In this lesson, you will learn the steps to study life science, how to think scientifically and read scientific articles using critical thinking to find any biases or opinion.

#### Cells: The Building Blocks of Life

(43 slide tutorial, and mastery test)

In this lesson, you will study the characteristics of cells, homeostasis and reproduction. You will look at how viruses have some characteristics of living things, but lack some important characteristics of life and how they affect cells.

#### Video: Stem Cells repair and replace

(2:17 minutes)

In this video, you will learn how cells die off and replace themselves.

#### Video: Hepatitis B

(2:28 minutes)

In this video, you will learn about the virus, Hepatitis B, and its effects on the body.

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### Sexual Reproduction

(22 slide tutorial, and mastery test)

In this lesson, you will learn how sexual reproduction includes both fertilization and meiosis. You will study how fertilization can take place either externally or internally. You will learn how meiosis produces unique gametes and later mixes genes from two parents to produce a unique organism, while organisms that reproduce asexually are clones of one another.