

## 2021 Semester 1 Science English Lesson Outlines

Topic: Astronomy/Introduction to Statistics

- For normal classes, there will be some lecture time with worksheets to fill out and then there will be a speaking/writing activity

(the order and the total number of lessons may change)

### Lesson 1: Introduction

- Warmup / welcome video
- ALT Q/A
- Class overview/ subject introduction
- Name cards / survey

### Lesson 2: Basic Math in English / Intro to Astronomy

- Math presentation – basic vocab review / scientific notation
- Astronomy presentation – intro to space, basic space facts (Section A and B in workbook)
- Worksheet time
- Writing activity or speaking activity or game (Math bingo maybe)

### Lesson 3: Intro to Statistics / Galaxies

- Math presentation\* – Why scientists use statistics and basic definitions
- Astronomy presentation – galaxies, the Milky Way (part D in textbook)
- Worksheet time
- Speaking activity

*\*shorten this part from last year*

### Lesson 4: Light and Waves Pt. 1 / Math Review / Speaking or Writing\* Activity

- Astronomy presentation – the physics of light (part C in textbook)
- Review some math concepts from the past few lessons
- Speaking / writing activity

*\*maybe do a fun creative writing activity here*

### Lesson 5: Light and Waves Pt. 2 / More Math / Worksheet Time

- Astronomy / Math Presentation – the equations used to describe waves (part C in textbook)
- We will use this lesson to go over answers of worksheets that we haven't had time to
- Video listening comprehension activity (watch video, ask question, have discussion)

### Lesson 6: The Big Bang and Heat Death

- Astronomy Presentation – the history of the universe and what will happen (part E in textbook)
- Debate game and drawing activity

### Lesson 7: Extra Lesson / Make-up Space in case of lesson cancellation

- Not sure yet what to do with this extra space. Perhaps an extra lesson on an astronomy topic that students want to learn about (that will not be on the test)

### Lesson 8: Presentation Lesson

- Presentation Presentation – present a presentation about presentations students must present next semester and talk about their summer homework
- Time for students to work on idea sheets
- Acting or role-playing game
- Semester 1 survey and mention Experiment

### Lesson 9: Experiment / Competition

- Egg drop competition – students must design a ‘container’ out of paper and a few other supplies to hold an egg that will be dropped. The teams will drop their egg onto a target and the team whose egg doesn’t break and who is closest to the target will win. Will take the entire class period.

### Lesson 10: Final Review

- Final review game with prizes.
- Talk about the final and what will be on it and what to study/what not to study
- Provide answer sheets for all the worksheets to all the students