

**March 12 - 16, 2018**

MON. MAR. 12TH

TUE. MAR. 13TH

WED. MAR. 14TH

THU. MAR. 15TH

FRI. MAR. 16TH

## 7th Grade Science Cell Processes and Energy

### Standards

**MS-LS1-1** Conduct an investigation to provide evidence that living things are made of cells, either one cell or many different numbers and types of cells.

**MS-LS1-2** Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.

**MS-LS1-6** Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms.

### Objective

1. Students will gather and synthesize information to explain how living things get energy from the sun
2. Students will develop and use models to describe what happens during photosynthesis

### Critical Questions

1. How do living things get energy?
2. What happens during photosynthesis?

### Bellringer

Discuss redwood tree photo "How do these giant trees grow?"

1. How do the trees get the energy to grow?
2. How can they get sunlight if they are surrounded by other large redwood trees?
3. How do these trees get water?
4. What do you think is the most limiting factor to this tree's growth?

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### Engagement

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### Objective

1. Students will develop and use models to explain the events that occur during respiration
2. Students will demonstrate and understand fermentation process

### Critical Questions

1. What occurs during the process of cellular respiration?
2. What occurs during the process of fermentation?

### Bellringer

Data Interpretation

### Engagement

Class reads about cellular respiration and fermentation; fill out graphic organizer about cellular respiration

 PhotosynthesisandCellularRespirationGraphicNotes.pdf

### Assessment

Question on socrative

### Homework

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### Objective

1. Students will demonstrate and understand principles of cell division
2. Students will demonstrate and understand stages of mitosis

### Critical Questions

1. What are the functions of cell division?
2. What happens during the cell cycle?

### Bellringer

Quiz on cellular respiration and fermentation

### Engagement

Class watched video on cell division  
<https://youtu.be/7bDpYZsC8mQ>; use pre-filled notes

### Assessment

One question assessment on paper that students turn in

### Homework

### Accommodations & Modifications

### Reflections

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### Objective

### Critical Questions

### Bellringer

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### Objective

### Critical Questions

### Bellringer

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### Accommodations & Modifications

### Reflections

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1. Students break into groups and each corner of room and research topics:
    - a. capturing the sun's energy for photosynthesis
    - b. using energy to make food during photosynthesis
    - c. the photosynthesis equation
    - d. how do living things get energy from the sun?
    - e. autotrophs and heterotrophs
  3. Students write one thing about their topic on butcher paper posted on the wall and will switch stations every 5 minutes
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### **Assessment**

Questions on Kahoot

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### **Homework**

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### **Accommodations & Modifications**

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### **Reflections**

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### **Accommodations & Modifications**

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### **Reflections**