Middle School Life Science

Homework Assignments

Textbook: [CK-12 Life Science Concepts](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/)

**Week 1 – September 22nd**

READING: Chapter 1: Introduction to Life Science

Read - [1.4 Scientific Investigation](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/1.4/)

Watch – Explore More Video on Variables at the end of the section

Answer questions 1-4 at the bottom of the video in your notes

AT HOME PROJECT:

Come up with a question you want to investigate

Come up with a hypothesis to answer the question at home

Identify your Independent and Dependent Variables

Write both in your notes – to be checked off **October 6th** by instructor

**Week 2 – September 29th**

AT HOME PROJECT:

Turn in on **October 6th**the following:

1. Question to investigate
2. Hypothesis
3. Your independent and dependent variables

**Week 3 – October 6th**

READING: Chapter 12: Ecology

Read – [12.12 What are biomes?](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/12.12/)

[12.13 Terrestrial Biomes](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/12.12/)

Watch the Explore More I & II videos

Answer the questions at the bottom of the videos in your notes

[12.14 Aquatic Biomes](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/12.14/)

Watch the Explore More I & II videos

Answer the questions at the bottom of the videos in your notes

AT HOME PROJECT:

Create a Materials List

Create a detailed step by step Procedure

**Week 4 – October 13th**

READING: Chapter 12: Ecology

Read – [12.7 Competition](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/12.7/)

[12.8 Predation](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/12.8/)

[12.9 Symbiosis](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/12.9/)

AT HOME PROJECT:

Run your experiment at least three times

Write down your procedure step by step – note any changes you made to the original procedure you turned in to the instructor

Be sure to run the experiment/collect data the EXACT SAME WAY at least three times

Accept or Reject your hypothesis

Put together your 5-minute presentation – **DUE OCTOBER 20th**

Be sure to include:

1. Question asked
2. Your Hypothesis
3. Materials list
4. Step by step procedure
5. Data collected
6. Any graphs, tables, charts, etc.
7. Photos
8. Results
9. Conclusion – accept or reject your hypothesis
10. Thank yous!

**Week 5 – October 20th**

NO HOMEWORK!!!! You deserve a break!

\*\*Bring in a microscope if you have one next week!\*\*

**Week 6 – October 27th**

READING: Chapter 2: Cell Biology

Read – [2.1 Cell Biology](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.1/)

Answer the Review questions in your notes

[2.2 Prokaryotic and Eukaryotic Cells](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.2/)

Watch the Explore More Video and answer the questions at the bottom in your notes

**Week 7 – November 3rd**

AT HOME PROJECT:

Design a 3-D model of a eukaryotic cell! DUE NOVEMBER 10TH

Must include the following organelles with labels and definitions:

1. Nucleus
2. Mitochondria
3. Cell membrane
4. Cell wall (if plant cell)
5. Chloroplasts (if plant cell)
6. Vacuole
7. Endoplasmic reticulum
8. Golgi apparatus
9. Ribosomes
10. Vesicles

For help Read [Chapter 2: 2.5 Organelles](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.5/) and watch the Explore More Video

**Week 8 – November 10th**

READING: Chapter 2: Cell Biology

[2.11 Photosynthesis](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.11/) Watch the videos that go with the reading

[2.12 Light Reactions of Photosynthesis](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.12/)

Watch the Explore More Videos I & II and answer the questions at the bottom of each in your notes

[2.13 Cellular Respiration](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.13/)  Watch the video that goes with the reading

[2.14 Process of Cellular Respiration](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.14/)

Watch the Explore More I, II, & III Videos and answer the questions at the bottom of each in your notes

[2.15 Connecting Photosynthesis and Cellular Respiration](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.15/)

**Week 9 – November 17th**

READING: Chapter 2: Cell Biology

[2.17 Cell Division](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.17/) Watch Explore More II Video

[2.18 Cell Cycle](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.18/)  Watch the Explore More Video

[2.19 Mitosis and Cytokinesis](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.19/) Watch the Explore More Video

Answer the Review Questions 1-5 in your notes

[2.20 Asexual vs. Sexual Reproduction](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/2.20/) Watch the Explore More Video

Answer the Review Questions 1-5 in your notes

***\*\*NO CLASS NOVEMBER 24th! HAPPY THANKSGIVING!***

**Week 10 – December 1st**

READING: Chapter 4: Evolution

[4.1 Theory of Natural Selection](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/4.1/)

[4.3 Natural Selection](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/4.3/)  Watch the Explore More Video

Answer the Review Questions 1-5 in your notes

[4.9 Hardy-Weinberg Theorem](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/4.9/)

Answer the Review Questions 1-4 in your notes

**Week 11 – December 8th**

READING: Chapter 11: Human Body *\*\*This is a preview to dissection next week!*

[11.1 Organization of the Human Body](http://www.ck12.org/book/CK-12-Life-Science-Concepts-For-Middle-School/section/11.1/)

Watch the Explore More Video and answer the questions at the bottom in your notes

Answer the Review Questions 1-6 in your notes

**Week 12 – December 15th**

Last day! Hope you had fun and learned a lot this fall!