



Aiken Performing Arts Academy
Chemistry, 2016-2017 School Year
Teacher: Lisa Nicole Cooper
Email: Lcooper@lkcs.k12.sc.us

Course Description:

The standards for chemistry establish scientific inquiry skills and core content for all chemistry courses in South Carolina schools. In chemistry, students acquire a fundamental knowledge of the substances in our world—their composition, properties, and interactions—that should serve them as a foundation for the more advanced science courses.

Supplies:

3 ring binder

Dividers

notebook paper

Colored Pencils (12 pack)

Pencils and Pens (**blue or black ink only**)

Basic Scientific Calculator

Course Objectives:

Upon completion of this course, students will:

- Demonstrate an understanding of atomic structure and nuclear processes
- Demonstrate an understanding of the structures and classifications of chemical compounds.
- Demonstrate an understanding of the types, the causes, and the effects of chemical reactions.

- Demonstrate an understanding of the structure and behavior of the different phases of matter.
- Demonstrate an understanding of the nature and properties of various types of chemical solutions.

Course Schedule:

<i>Topics for the 1st Semester</i>	<i>Topics for the 2nd Semester</i>
Lab Safety and Introduction to Chemistry	Mathematical Chemistry
Classifying Matter	Chemical Reactions
Atomic Structure	Gas Laws
Nuclear Chemistry	Solutions
Electrons and Quantum Theory	Thermal/Kinetics
Bonding	Organic Chemistry

Grading:

Category	Percentage
Classwork	25%
Homework	10%
Quizzes	20%
Tests	35%
Exam	10%
Total	100%

Late Work Grading Policy:

Late work will be penalized 10 points for each unexcused day.

Classroom Expectations:

1. Students are expected to be in their seat and ready to work when the bell rings.
2. You may not pack up early. I dismiss you not the bell.
3. Supplies should be brought to class each day (writing utensil, paper, notebook, textbook).
4. No food, drinks, or gum will be permitted in the classroom.
5. Listen to and follow all directions in class.
6. Respect the teacher and your classmates at all times. Do not talk when others are talking. If you have a question, please raise your hand.

Make-up work:

When a student is absent from class, it is their responsibility to make sure they make up their assignments. If a student is absent on the day of a test or on the day an assignment is due and has been notified of the test/assignment in advance the student will be expected to make up the test or turn in the assignment on the date of return.

I have read and understand the above Chemistry course syllabus.

Student signature and date:

Parent(s)/Guardian signature and date:



Aiken Performing Arts Academy

Environmental Science, 2016-2017 School Year

Teacher: Lisa Nicole Cooper

Email: Lcooper@lkcs.k12.sc.us

Course Description:

Environmental Science provides students with the scientific principles and concepts needed to understand the interrelationships of the natural world, to identify environmental problems and to examine solutions for resolving and/or preventing them. Environmental Science is a *course* that enables students to develop an understanding of natural and man-made environments and environmental problems the world faces.

Supplies:

3 ring binder

Dividers

notebook paper

Colored Pencils (12 pack)

Pencils and Pens (***blue or black ink only***)

Course Objectives:

Upon completion of this course, students will:

- Investigate the flow of energy and cycling of matter within an ecosystem and relate these phenomena to human society.
- Demonstrate an understanding that the Earth is an interconnected system.
- Describe stability and change in ecosystems.
- Understand and describe availability, allocation, and conservation of energy and other resources.

- Recognize that human beings are part of the global ecosystem and will evaluate the effects of human activities and technology on ecosystem.

Course Schedule:

<i>Topics for the 1st Semester</i>	<i>Topics for the 2nd Semester</i>
Intro to Environmental Science & Ecology	Land and Its Uses
Biodiversity	Energy: Nonrenewable and Renewable
Climate and Its Effect on Biomes	Environment and You
Water Uses and Pollution	

Note- Schedule is subject to change at teacher's discretion.

Grading:

Category	Percentage
Classwork	25%
Homework	10%
Quizzes	20%
Tests	35%
Exam	10%
Total	100%

Late Work Grading Policy:

Late work will be penalized 10 points for each unexcused day.

Classroom Expectations:

1. Students are expected to be in their seat and ready to work when the bell rings.
2. You may not pack up early. I dismiss you not the bell.
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Make-up work:

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I have read and understand the above Environmental Science course syllabus.

Student signature and date:

Parent(s)/Guardian signature and date:



Aiken Performing Arts Academy

Biology, 2016-2017 School Year

Teacher: Lisa Nicole Cooper

Email: Lcooper@lkcs.k12.sc.us

Course Description:

The Biology standards provide students with a basic knowledge of living organisms and the interaction of these organisms with the natural world. Topics covered in the first semester include Scientific Inquiry/Lab Safety, Biochemistry, Cell Structure and Function, Cell Transport, Cellular Energy and Cell Growth/Division. Topics covered in the second semester include Sexual Reproduction and Inheritance, DNA Replication and Protein Synthesis, Biotechnology, Biological Evolution and Ecology.

Supplies:

3 ring binder

Dividers

notebook paper

Colored Pencils (12 pack)

Pencils and Pens (**blue or black ink only**)

Course Objectives:

Upon completion of this course, students will:

- Demonstrate an understanding of how scientific inquiry and technological design, including mathematical analysis, can be used appropriately to pose questions, seek answers, and develop solutions.
- Demonstrate an understanding of the structure and function of cells and their organelles.
- Demonstrate an understanding of the flow of energy within and between living systems.
- Demonstrate an understanding of the molecular basis of heredity.
- Demonstrate an understanding of biological evolution and the diversity of life.

Course Schedule:

<i>Topics for the 1st Semester</i>	<i>Topics for the 2nd Semester</i>
Scientific Inquiry & Lab Safety	Sexual Reproduction and Inheritance
Biochemistry	DNA Replication & Protein Synthesis
Cell Structure and Function	Biotechnology
Cell Transport	Biological Evolution
Cellular Energy	Ecology
Cell Growth and Division	

Note- Schedule is subject to change at teacher's discretion.

Grading:

Category	Percentage
Classwork	25%
Homework	10%
Quizzes	20%
Tests	35%
Exam	10%
Total	100%

Late Work Grading Policy:

Late work will be penalized 10 points for each unexcused day.

Classroom Expectations:

1. Students are expected to be in their seat and ready to work when the bell rings.
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Make-up work:

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I have read and understand the above Biology course syllabus.

Student signature and date:

Parent(s)/Guardian signature and date:
