

Syllabus

Third and Fourth Grade Science: Systems

This course is offered during each academic year that the fall semester ends in an even number.

Heritage Academy
A University-Model School®

I. Course Purpose and Content

This course will encourage students' natural curiosity about the physical world around them within the framework of a biblical worldview. The activity-based, hands-on approach will direct scientific investigation in many areas of earth and space science from soil and water to the atmosphere and the vast universe beyond. Students will also study the human body's cardiovascular system, immune system, digestive system and respiratory system, and consider how the choices they make affect their personal well-being.

II. Worldview Integration

Heritage Academy is committed to teaching subjects in such a way that students develop a biblical worldview out of which to think and act. Lessons taught in this course will be structured with a God-centered perspective of creation, responsibility, and stewardship. The following are key essential truths that will relate to students' explorations in science: God is ultimate reality (Gen. 1:1; Ps. 90:2) and is infinite, omnipotent, and omniscient; He is Creator (spoke the universe into existence) and sustainer of the universe (Ps. 148:1-5; Col. 1:16-17); He is intelligent and a God of order and design (Rom. 11:34); God has chosen to reveal His power and His Godhead through his design of the natural world (Ps. 19); as rational beings, created in the image of God, we can know many things through the scientific method – through observation and reason (Ps. 8:4-6); God communicates quantitatively and has given humans the minds to do so as well.

III. Required Texts and Materials

Systems: Science, Level 4

[ISBN: 9781583312094; ACSI/Purposeful Design; 2007]

Systems: Science Notebook, Level 4

[ISBN: 9781583312186; ACSI/Purposeful Design; 2007]

A binder that includes 3 tabs labeled: *SCI Papers* | *SCI Tests* | *SCI Projects*

Blue Pen

Highlighter

→ Please also check the supply list provided for the current academic year to know of any additional supplies your student will need to have.

IV. Course Guidelines and Student Responsibilities

A. Attendance

Attendance is imperative as concepts are more difficult to learn when the student is absent. Students are expected to attend class and contribute positively to the classroom environment.

Tardiness is disruptive to other class members. Please arrive on time and prepared. All absences and tardies are considered unexcused unless accompanied by a note from a parent or guardian. Please remember that three tardies generate one absence.

As communicated in Heritage Academy's Family Manual, attendance requirements for core elementary courses require that the student be present for at least forty-two class periods during the semester. This allows for six absences. Failure to meet this minimum attendance requirement may result in an F being awarded and recorded on the student's transcript.

B. Absences and Late Work

In the case of planned absence(s), homework that is due during the student's absence must be completed and submitted to the instructor in advance.

When a student is unexpectedly and unavoidably absent due to ill health, past-due assignments must be submitted within two course periods after the student's return to school. **When an unexpected absence must occur, please be sure to notify the school office and the instructor of the students' absence as quickly as possible, preferably before the involved class occurs. This contact may occur by phone or by email.**

Late work that is submitted simply "late" will be graded and penalized with a **ten percent grade reduction for each course period that it is late**; homework will not be accepted more than three course periods (1 week) past its due date, unless previous arrangements between the teacher and the student's parent have been agreed to in light of peculiar circumstances that are occurring beyond the family's control.

C. Student Conduct and Preparation for Learning

So that a classroom environment conducive for safety, focus, and learning may be maintained, each student is expected to conduct himself/herself in keeping with the following guidelines throughout the course of the semester:

- 1) Arrive on time to each class period with the appropriate class materials available for access (e.g., organized notebook with dividers and filed materials, paper, writing tools, texts, and other tools as directed)
- 2) Arrive prepared to submit completed at-home assignments at start of each class period.
- 3) Arrive ready to listen, learn, take notes as directed, and participate in teacher-directed classroom discussions and activities.
- 4) Ask for clarification or further explanation when a concept or direction remains unclear.
- 5) Demonstrate a spirit of cooperation, kindness, and respect toward the teacher and fellow classmates, demonstrating respect to Heritage Academy's Code of Conduct.
- 6) Help keep the classroom area clean and orderly.
- 7) Cooperate with the parent-educator and the Heritage Academy teacher to complete homework in a timely fashion
- 8) Communicate concerns regarding schoolwork to both the Heritage Academy teacher and the parent-educator, so that these concerns can be addressed quickly.
- 9) On the whole, conduct himself or herself in a manner that is worthy of Christ and reflects the life of the Holy Spirit in him/her: ". . . that you may live a life worthy of the Lord and may please Him in every way: bearing fruit in every good work, growing in the knowledge of God, being strengthened with all power according to His glorious might so that you may have great endurance and patience, and joyfully giving thanks to the Father, who has qualified you to share in the inheritance of the saints in the kingdom of light" (Colossians 1:12).

D. At-Home (Satellite Classroom) Investment

Daily home-assignments will be outlined on the weekly Home-Communication Sheet the student will receive each Monday. The student can expect to invest approximately 2.5 to 4 hours each week completing coursework at home in preparation for class periods. Course assignments may include any of the following:

- **Read and response:** Students may be assigned to read portions from their text book, then write answers to various questions, write definitions to terms, or outline the material they read.

- **Writing and Alternate Projects:** Students may be asked to invest incremental work into writing assignments, research projects, or other sorts of projects in order to show mastery of a topic.
- **Memorization:** terms, names, dates, scripture, etc.
- **Maintenance of Course Binder:** Students are encouraged to keep their weekly communication sheets, completed homework, tests, and class notes organized in a class binder. Parents may need to help their student maintain this system. The more organized the student is, the more easy he/she will be able to review tests, outlines, notes, etc, when needed.
- **Preparation for Tests or Quizzes:** Unit tests and quizzes (quizzes may announced and unannounced) will occur throughout the semester. Students will know clearly what to study in preparation for tests, but will need to discipline themselves to do additional off-campus preparation for testing in whatever way is most effective for them.
- **Other Assignments:** additional types of assignments may given throughout the semester at the discretion of the instructor

E. Assessments

A number of written examinations or equivalent alternative assessments/projects will be given throughout the course of the semester, with at least one given for each unit.

F. Grades

Grade Apportionment		Grading Scale	
Assignments & Projects	40%	100-95..... A	79-77.... C+
Tests & Alternate Assessments	60%	94-90 A-	76-73.... C
		89-87 B+	72-70.... C-
		86-83B	69-60.... D
		82-80..... .B	-59 or belowF

The course grade the student is awarded at the end of the semester will also be the grade that appears on the student’s transcript. To receive a passing semester grade, and to remain eligible for promotion into the next course in Heritage Academy’s science sequence, the student must achieve a percentage grade of 70% or higher (which translates to a letter grade of C- or higher) and fulfill attendance requirements.

V. Parent Responsibilities

A. Embrace the University Model

University-Model Schooling at Heritage Academy is driven by two guiding principles:

- ◆ to preserve and strengthen God-ordained family relationships
- ◆ to offer students the opportunity to achieve a high degree of academic excellence.

Heritage Academy operates as a University-Model School®, designed for families who want their students to flourish from a life anchored in the home yet still gain from the best aspects of traditional, classroom education. Courses offered at Heritage Academy occur every-other-day so that students may realize the benefits of qualified teachers and a focused learning community, yet continue to experience home as the primary, consistent base where parents remain their foremost guides for spiritual, social, academic, and character formation.

Parents, please consider ways you may maximize the benefits University-Model Schooling offers to your family. How can you as parents utilize the at-home study time this model provides to nurture deeper relationship and model and impart the faith, values, and life-patterns you desire your student to embrace?

B. Fulfill the Parent Role

Within the University-Model School®, parents commit to fulfill a specified role related to each course in which their student is enrolled, as prescribed by the course’s description. Each role identifies specific responsibilities that the teacher relies on the parent to perform, thus facilitating effective home/school partnership whereby students are assured of receiving needed support. The parent role designated for this course is that of “**Private Tutor.**”

Courses involving this role are made successful because the student has a private tutor (the parent) at home, who is willing and ready to assist the student as needed. Parents will be responsible for reviewing the weekly assignment sheet that is sent home each Monday with the student. This assignment sheet will outline course objectives being covered in class and at-home assignments that must be completed before the next class period. Parents should reserve time to support their student when necessary, make sure the student is doing his or her best work, and confirm that the student is grasping the material. If the student begins to encounter particular difficulties that the parent is having trouble resolving, the parent should notify the teacher sooner, rather than later.

C. Monitor Engrade

As your student earns grades for completed tests, quizzes, and various projects and homework assignments, these will be recorded in **Engrade.com** for you to view at your convenience. My general goal will be to post grades online within a week of their being awarded.

In Engrade, missing assignments will also be noted by an “M.” Please take time to follow your student’s progress on Engrade so that you can quickly recognize and explore/address areas of patterns of difficulty or concern that may appear and affirm positive accomplishments.

Directions to register for Engrade are accessible on Heritage Academy’s website under “Resources” and “Engrade”, or may also be received from the office. If you need aid setting up Engrade (it should only take about two minutes), please contact Heritage Academy’s office.

D. Attend Parent/Teacher Fellowship

I hope you will take time to come to Parent/Teacher Fellowship scheduled during the 7th week of each semester. This will give you and I a brief opportunity to connect face-to-face and discuss your student’s progress, making the most of the partnership that is so vital to students’ success within the University Model®.

VI. Contacting the Instructor

Teacher contact information can be found on the weekly communication sheets or in the school directory.

Heritage Academy is a Certified University-Model School® that exists to help Christian Parents prepare college-worthy, character witnesses for Jesus Christ.

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