



Awaken Academy
Partnering with Parents

COURSE SYLLABUS
Physical Science

Thursdays: 10:00 – 10:55 am
Bressi Ranch Campus, Fall 2020

“But ask the beasts, and they will teach you; the birds of the heavens, and they will tell you; or the bushes of the earth, and they will teach you; and the fish of the sea will declare to you. Who among all these does not know that the hand of the Lord has done this? In his hand is the life of every living thing and the breath of all mankind.

Job 12:7-10

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Course Details

An overview of the physical, cognitive, psychosocial, and moral stages of human development from prenatal life through old age, including a focus on major theorists, age-related milestones, biblical guidelines for connectedness, and the development of intergenerational learning communities.

Expected Homework: 1 chapter reading, “On Your Own Questions” for in class discussion

Textbook & Materials

Textbook: *Apologia: Exploring Creation With Physical Science*. Dincher

Course Objectives

This class will introduce concepts which are foundational for understanding the natural world on a molecular level. From states of matter and chemical bonds to the physics of energy. Students will be able to increase their skills in observing how matter interacts while also improving their ability to practice the scientific method through problem solving and hands-on activities.

Academy Mission and Vision Statements

Awaken Academy Mission: The goal of Awaken Academy is to foster a lifelong love of learning and an appreciation for the arts in the context of church and culture, helping to equip the next generation of leaders to excel in the home, the church, and the marketplace.

Awaken Academy Vision: Awaken Academy endeavors to partner with Awaken homeschooling parents, creating community, enhancing skills, and building kingdom.

Awaken Academy Statement of Purpose: Awaken Academy connects parents, pastors, professors, and homeschool students around the central hub of the local church, providing collective oversight and connective opportunities for church-based homeschool programs. Additionally, Awaken Academy fosters connective threads between the local church and Christian institutions of higher education, strengthening the bonds of unity, creating a rich culture of educational and workplace influence, and preparing students for college, career, and family life.

About Your Teacher

Faith Hillard has lived in San Diego her whole life, completing her studies at Santa Fe Christian Schools and Point Loma Nazarene University where she received her undergraduate in Biology, with a certification in French in 2019. She has been attending Awaken Church for the last 12 years, way back when there was one campus that met in the gym of The Boys and Girls Club. Since then, she has been active in the church, from helping out in the nursery, to working as a stage manager for My City Youth, and serving the pastors in the Green Room. One of Faith's favorite activities is to be outside exploring God's creation, and connecting with his people. Faith has always had a love for the ocean, from constantly replaying VHS of The Little Mermaid to spending afternoons at Scripps Birch Aquarium feeding and caring for many aquatic species. While working at the aquarium as well as in the education department for SeaWorld San Diego, Faith fell in love with teaching science to people of all ages and walks of life. She is excited to instill the same passion for science, animals, and respect for all living things that God has entrusted us to care and tend to.

Awaken Academy Statement of Beliefs

Awaken Academy is a biblically-based model of education, and all employees hired within the Academy share in a core culture of spiritual DNA that forms the basis of how we treat ourselves and one another. We believe:

1. There is one God: God the Father, God the Son, and God the Holy Spirit.
2. In the deity of our Lord Jesus Christ the Son of God; we believe in His virgin birth, in His sinless life, in His miracles, in His victorious and atoning death, in His bodily resurrection, in His ascension to the right hand of the Father, His constant intercession and in His imminent return.

3. In the baptism of the Holy Spirit as a gift available to believers subsequent to the new birth, with normal evidence of speaking in other tongues.
4. In the sacraments of the Lord's Supper and baptism by full immersion in water for all believers.
5. In the person and work of the Holy Spirit with His fruits and gifts available in the Church.
6. The Bible is the living word of God. It is infallible, authoritative and everlasting and is the foundation of all Christian doctrine.
7. In the existence of an evil spiritual being known as the devil.
8. In the great Commission given to us by Jesus Christ before His ascension, to go and make disciples of all nations, baptizing and teaching them. This requires both saving and transforming people from every culture, ethnicity and tongue!
9. In the resurrection of both the saved and the lost, the one to everlasting life and the other to everlasting separation from God.
10. In the church being the body of Christ, and each member being an active part of a local church, fulfilling the Great Commission.
11. Marriage was instituted by God, ratified by Jesus, and exists exclusively between a man and a woman. It is a picture of Christ and his church. Sexual intimacy is a gift from God for procreation and unity, and it is only appropriate within and designed for marriage.

Awaken Academy Student Code of Conduct

1. Students are to follow the directions of Awaken Academy teachers and staff at Awaken-sponsored events, including but not limited to field trips and performances.
2. Students are to display appropriate conduct during class session. This includes courtesies such as refraining from unkind remarks, profanity, coarse jokes, or other language that demonstrates disrespect or a lack of charity.
3. Students are to demonstrate respect and kindness to all staff and program participants. Students are not to gossip, lie, bully, or engage in physical or verbal fights with one another. Appropriate and biblical conflict management tools will be modeled, taught, and expected at Awaken Academy.

4. Students are expected to complete any assigned course work at home, to be on time to class, to bring the necessary class supplies, and to be prepared for the lesson. Students will not be permitted to sit in the back of the classroom and disengage. All students participate.
5. Students are encouraged to make wholesome friendships. Students should look upon one another as brothers and sisters in Christ and refrain from demonstrating romantic affection, or giving the appearance of romantic affection, at Academy functions.
6. Students are expected to demonstrate appropriateness in dress that exemplifies respect for oneself and for other students. Staff and faculty reserve the right to address the behavior of students who demonstrate a lack of awareness of the underlying principles of modesty and self-respect.
7. Awaken Academy students are encouraged to break the generational norms of screen/entertainment addiction. Unless the student needs to contact a parent, cell phones should be put away while the students are in class, at lunch, and on break. Friendships often develop in the margin before and after class, so students are encouraged to be engaged in the present moment and learn the art of face-to-face conversation.
8. Students are to display courtesy by remaining seated until dismissed, by treating church property with respect, and by cleaning up after themselves. Students are to respect the church facilities by taking care of the classrooms, not marking on the walls or tables, not pulling on wall displays, and by demonstrating care and respect for the buildings with which we have been blessed.
9. Students must be under the direct supervision of their parent or an Awaken Academy teacher at all times, including breaks, and it is the student's responsibility to be in an area that is appropriately supervised. Students will be signed in and out of class and the campus each day. Students must remain on site during lunchtime/breaks unless signed out by an approved family member.
10. Awaken Academy students are expected to refrain from immoral and illegal conduct. All weapons, illegal drugs, alcohol, and tobacco products are strictly prohibited from the facilities. Stealing, lying, bullying, cutting, fighting, or other acts of aggression toward oneself or others will be grounds for immediate dismissal from the program.

High School Student Success Strategies

The success strategies that you create in your life today will lay a strong foundation for future learning; what you become tomorrow is largely a result of the choices you make today. Below are some hints that can help you in this regard.

- **Technological Diversions:** Advanced technology offers wonderful opportunities for connectivity, but it can also serve as a distraction in the classroom. I realize that this requires self-discipline (a fruit of the spirit, btw); however, keep in mind that college is preparing you for the real world. If you answer a text or call during a job interview, that will assuredly be the untimely and unfortunate end of your opportunity with that employer.
- **Conflict Management:** If you experience a conflict in class or during a group project, I expect you to follow the biblical model of resolving interpersonal conflict. First, respectfully confront the person with which you have an issue. If the person does not respond appropriately, let me know, and I will join the conversation. We will work toward peace, forgiveness, and understanding. The Matthew 18 principle teaches that we take responsibility for—and seek to heal or resolve—interpersonal conflict.
- **Side Conversations:** The classroom environment is one of discussion and collaboration. I value the insights and experience each student brings to the class. In order for us all to hear one another and communicate value to one another, students should refrain from side conversations while others are speaking or presenting.
- **Attitude is everything.** Numerous studies substantiate the direct correlation between a positive attitude and academic success (or success in any realm for that matter). I want to encourage you to lay aside any previous mental scripts you may have developed regarding perceived inabilities or insecurities. If you come to class ready to learn, with an open mind and a positive attitude, there will be no limit to your God-given potential. If you are facing a challenging situation in school or in life, I am here to pray with you, support you, and guide you on your academic journey.

Human Development: Semester Schedule

Week	Reading/Conceptual Overview	In Class
Week 1		Get to know you, in class activity
Week 2	Chapter 1 Science: The Basics	Review “On Your Own” Questions In class lab

Week 3	Chapter 2 Chemistry Properties and the state of Matter: Pages 41- 60 “On Your Own” Questions	Class discussion of OYO questions In class lab: Exploring Different Densities
Week 4	Chapter 2 Chemistry Properties and the state of Matter: Pages 60 - End of chapter Chapter 2 Test	Check for Class Understanding
Week 5	Chapter 3 Chemistry Atomic Structure and the Periodic Table “OYO” questions Chapter 3 test	Review OYO Questions In Class Activity
Week 6	Chapter 4 Chemistry Chemical Bonds: Pages 115- 130	In class Discussion of reading assignment
Week 7	Chapter 4: Chemistry Chemical Bonds: Pages 130- End of Chapter Complete one at home experiment (4.1- 4.3) and be ready to discuss results Chapter 4 Test	Discuss what was learned from at home experiment Check for Chapter Understanding
Week 8	Chapter 5: Chemistry Reactions and Energy: Pages 151- 166 OYO questions	Review Questions and Writing Formulas In Class Activity
Week 9	Chapter 5: Chemistry Reactions and Energy: Pages 166- end of Chapter OYO questions Chapter 5 test	Review OYO In Class Activity
Week 10	Chapter 6: Physics Motion: Pages 187- 199	Discussion of OYO questions Measuring displacement activity

	Measuring average speed Activity	
Week 11	Chapter 6: Physics Motion Pages 199- End of chapter OYO Questions Chapter 6 Test	Review Answers to OYO In Class Activity
Week 12	Chapter 7: Physics Forces: Pages 225- 245 You Do Science Activity pg 236	Discussion of OYO questions In Class Activity
Week 13	Chapter 7: Physics Forces Pages 245- End of Chapter OYO questions Chapter 7 Test	Ballon Rocket Activity Check for Chapter Understanding Discuss Showcase
Week 14	Prepare Showcase	