

Twice Born Ministry

SCI-102: Chemistry & Physics Foundations

Course Code: SCI-102

Credit Hours: 3

King James Version (KJV) — Sola Scriptura Curriculum

Generated 2026-06-30

Course Description

SCI-102: Chemistry & Physics Foundations

Course Description

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

This course is part of **Layer 5 — Four-Year Degree Programs** (Track E: STEM / Mathematics / Sciences) in the Twice Born Ministry Bible School catalog. **College category:** Natural Sciences.

Course Details

| Field | Value |

|-----|-----|

| **Course Code** | SCI-102 |

| **Career Track** | E — STEM / Mathematics / Sciences |

| **Catalog Track** | Physical Sciences |

| **College Category** | Natural Sciences |

| **Credit Hours** | 3 |

| **Weeks** | 12 |

| **Lessons** | 12 |

| **Prerequisites** | SCI-101 |

| **Homeschool Band** | College |

| **Primary Text** | King James Version (KJV) |

| **Source / Resources** | OpenStax Chemistry/Physics awareness |

TBM Cross-References

- Hebrews 11:3 (KJV)

- SCI-101

Learning Outcomes

Upon completion, students will be able to:

1. Explain core concepts and vocabulary for this vocational domain at college introductory level.
2. Apply biblical ethics when secular models conflict with Kingdom priorities.

3. Complete practical assignments, scenarios, or lab exercises with documented integrity.
4. Articulate connections between vocation, stewardship, and local church ministry.
5. Pass module quizzes and capstone assessments at 70% or higher.

Assessment Overview

- **Module quizzes:** JSON per module (multiple choice + short answer).
- **Assignments:** 3–4 rubric-graded projects.
- **Group projects:** 2 collaborative exercises.
- **Final exam:** Comprehensive short and extended responses.
- **Video scripts:** 3–5 instructor scripts for optional production.

Christian Guardrails

- KJV citation standard; Christ-centered instruction.
- Career exploration does not replace licensure, trade apprenticeships, or professional counsel where required.
- AI tools may assist research but not replace original work or pastoral judgment.

Instructor Notes

Professor Shepherd AI instructor shortcode: [tb_ai_instructor course_code="SCI-102"]

Twice Born Ministry Bible School — Layer 4 Career Tracks

Course Modules

SCI-102 — Lesson 1: Atoms, Elements, and Order in Creation

Introduction

Welcome to Lesson 1 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Atoms, Elements, and Order in Creation** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof (Psalm 24:1, KJV). Every vocation—accounting, medicine, media, or cloud engineering—is borrowed stewardship.

Apply this principle while studying **Atoms, Elements, and Order in Creation**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Atoms, Elements, and Order in Creation

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)
- • SCI-101

Application for Vocation and Ministry

Atoms, Elements, and Order in Creation should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 1: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Atoms, Elements, and Order in Creation** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 1 Summary: We examined **Atoms, Elements, and Order in Creation** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 2. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

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Supplemental Reading and Reflection

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SCI-102 — Lesson 2: Chemical Bonds and Reactions

Introduction

Welcome to Lesson 2 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Chemical Bonds and Reactions** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Wisdom

If any of you lack wisdom, let him ask of God (James 1:5, KJV). Markets, laws, and technologies change; Scripture-grounded wisdom endures.

Apply this principle while studying **Chemical Bonds and Reactions**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Chemical Bonds and Reactions

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)

- • SCI-101

Application for Vocation and Ministry

Chemical Bonds and Reactions should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 2: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Chemical Bonds and Reactions** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 2 Summary: We examined **Chemical Bonds and Reactions** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 3. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Historical Figure Spotlight

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Supplemental Reading and Reflection

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Worship Integration

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SCI-102 — Lesson 3: Stoichiometry and Measurement Precision

Introduction

Welcome to Lesson 3 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Stoichiometry and Measurement Precision** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Truth

Buy the truth, and sell it not (Proverbs 23:23, KJV). Financial reports, news scripts, and research data must reflect reality—not convenience.

Apply this principle while studying **Stoichiometry and Measurement Precision**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Stoichiometry and Measurement Precision

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

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TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)
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Application for Vocation and Ministry

Stoichiometry and Measurement Precision should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 3: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Stoichiometry and Measurement Precision** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 3 Summary: We examined **Stoichiometry and Measurement Precision** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 4. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

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Supplemental Reading and Reflection

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Worship Integration

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SCI-102 — Lesson 4: Acids, Bases, and Environmental Applications

Introduction

Welcome to Lesson 4 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Acids, Bases, and Environmental Applications** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof (Psalm 24:1, KJV). Every vocation—accounting, medicine, media, or cloud engineering—is borrowed stewardship.

Apply this principle while studying **Acids, Bases, and Environmental Applications**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Acids, Bases, and Environmental Applications

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)
- • SCI-101

Application for Vocation and Ministry

Acids, Bases, and Environmental Applications should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 4: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Acids, Bases, and Environmental Applications** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 4 Summary: We examined **Acids, Bases, and Environmental Applications** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 5. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Historical Figure Spotlight

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Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

Worship Integration

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Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

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Historical Figure Spotlight

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Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

SCI-102 — Lesson 5: Motion, Velocity, and Kinematics

Introduction

Welcome to Lesson 5 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Motion, Velocity, and Kinematics** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Wisdom

If any of you lack wisdom, let him ask of God (James 1:5, KJV). Markets, laws, and technologies change; Scripture-grounded wisdom endures.

Apply this principle while studying **Motion, Velocity, and Kinematics**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Motion, Velocity, and Kinematics

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)

- • SCI-101

Application for Vocation and Ministry

Motion, Velocity, and Kinematics should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 5: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Motion, Velocity, and Kinematics** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 5 Summary: We examined **Motion, Velocity, and Kinematics** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 6. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

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Worship Integration

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Historical Figure Spotlight

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Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

SCI-102 — Lesson 6: Forces, Work, and Energy Conservation

Introduction

Welcome to Lesson 6 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Forces, Work, and Energy Conservation** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Truth

Buy the truth, and sell it not (Proverbs 23:23, KJV). Financial reports, news scripts, and research data must reflect reality—not convenience.

Apply this principle while studying **Forces, Work, and Energy Conservation**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Forces, Work, and Energy Conservation

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)
- • SCI-101

Application for Vocation and Ministry

Forces, Work, and Energy Conservation should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 6: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Forces, Work, and Energy Conservation** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 6 Summary: We examined **Forces, Work, and Energy Conservation** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 7. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension.

Pastoral communication is part of theological training, not an optional soft skill.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

Historical Figure Spotlight

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Historical Figure Spotlight

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SCI-102 — Lesson 7: Waves, Sound, and Light

Introduction

Welcome to Lesson 7 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Waves, Sound, and Light** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof (Psalm 24:1, KJV). Every vocation—accounting, medicine, media, or cloud engineering—is borrowed stewardship.

Apply this principle while studying **Waves, Sound, and Light**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Waves, Sound, and Light

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)

- • SCI-101

Application for Vocation and Ministry

Waves, Sound, and Light should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 7: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Waves, Sound, and Light** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 7 Summary: We examined **Waves, Sound, and Light** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 8. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Historical Figure Spotlight

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Historical Figure Spotlight

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Supplemental Reading and Reflection

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Historical Figure Spotlight

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Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Ministry Case Study

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Worship Integration

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Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

SCI-102 — Lesson 8: Electricity and Magnetism Intro

Introduction

Welcome to Lesson 8 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Electricity and Magnetism Intro** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Wisdom

If any of you lack wisdom, let him ask of God (James 1:5, KJV). Markets, laws, and technologies change; Scripture-grounded wisdom endures.

Apply this principle while studying **Electricity and Magnetism Intro**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Electricity and Magnetism Intro

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)
- • SCI-101

Application for Vocation and Ministry

Electricity and Magnetism Intro should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 8: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Electricity and Magnetism Intro** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 8 Summary: We examined **Electricity and Magnetism Intro** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 9. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

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Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

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Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Historical Figure Spotlight

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Worship Integration

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Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

SCI-102 — Lesson 9: Lab Notebooks and Reproducibility Ethics

Introduction

Welcome to Lesson 9 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Lab Notebooks and Reproducibility Ethics** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Truth

Buy the truth, and sell it not (Proverbs 23:23, KJV). Financial reports, news scripts, and research data must reflect reality—not convenience.

Apply this principle while studying **Lab Notebooks and Reproducibility Ethics**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Lab Notebooks and Reproducibility Ethics

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.

- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)

- • SCI-101

Application for Vocation and Ministry

Lab Notebooks and Reproducibility Ethics should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 9: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Lab Notebooks and Reproducibility Ethics** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 9 Summary: We examined **Lab Notebooks and Reproducibility Ethics** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 10. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

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Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

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Historical Figure Spotlight

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Worship Integration

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SCI-102 — Lesson 10: Engineering Applications in Ministry Facilities

Introduction

Welcome to Lesson 10 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Engineering Applications in Ministry Facilities** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Stewardship

The earth is the LORD's, and the fulness thereof (Psalm 24:1, KJV). Every vocation—accounting, medicine, media, or cloud engineering—is borrowed stewardship.

Apply this principle while studying **Engineering Applications in Ministry Facilities**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Engineering Applications in Ministry Facilities

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)
- • SCI-101

Application for Vocation and Ministry

Engineering Applications in Ministry Facilities should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 10: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Engineering Applications in Ministry Facilities** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 10 Summary: We examined **Engineering Applications in Ministry Facilities** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 11. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

Historical Figure Spotlight

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Supplemental Reading and Reflection

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Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

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SCI-102 — Lesson 11: Science Apologetics and Design Inference

Introduction

Welcome to Lesson 11 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Science Apologetics and Design Inference** within the **Track E — STEM / Mathematics / Sciences** pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Wisdom

If any of you lack wisdom, let him ask of God (James 1:5, KJV). Markets, laws, and technologies change; Scripture-grounded wisdom endures.

Apply this principle while studying **Science Apologetics and Design Inference**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Science Apologetics and Design Inference

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)
- • SCI-101

Application for Vocation and Ministry

Science Apologetics and Design Inference should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 11: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Science Apologetics and Design Inference** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 11 Summary: We examined **Science Apologetics and Design Inference** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to Lesson 12. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their courage and Scripture saturation, not necessarily every cultural application.

Ministry Case Study

Imagine a congregant confused about this lesson's topic after watching online teaching that contradicts historic evangelical doctrine. Draft a pastoral response email that (1) expresses empathy, (2) clarifies

biblical teaching with two references, (3) invites in-person conversation, and (4) avoids condescension. Pastoral communication is part of theological training, not an optional soft skill.

Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

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Supplemental Reading and Reflection

Assign one chapter from a standard systematic theology textbook or equivalent lecture notes. Summarize the author's definitions, note where Scripture proofs appear, and evaluate whether the Bible truly supports each claim. Theology students must read widely yet judge all teaching by the Word. Write a half-page response connecting supplemental reading to this lesson's theme.

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SCI-102 — Lesson 12: Capstone: Physical Science Demonstration Lesson

Introduction

Welcome to Lesson 12 of **Chemistry & Physics Foundations** (SCI-102). This session explores **Capstone: Physical Science Demonstration Lesson** within the **Track E — STEM / Mathematics /**

Sciences pathway at Twice Born Ministry Bible School.

This track provides Liberty/Hillsdale-style quantitative and natural science foundations with creation-stewardship framing—not scientism, but rigorous inquiry under God.

This is **Layer 4 — Career Tracks** content at college level (or high school dual-enrollment where noted). The King James Version remains the citation standard for all scripture. Complete BS-FND-100 or listed prerequisites before advanced modules.

Pray for wisdom before studying. Career competence without Christ-centered character produces skilled workers who build on sand. We pursue excellence **as unto the Lord** (Colossians 3:23).

Christian Ethics Integration — Truth

Buy the truth, and sell it not (Proverbs 23:23, KJV). Financial reports, news scripts, and research data must reflect reality—not convenience.

Apply this principle while studying **Capstone: Physical Science Demonstration Lesson**: document ethical decisions, cite KJV where appropriate, and identify when professional practice must yield to conscience.

Core Teaching

Theme: Capstone: Physical Science Demonstration Lesson

The fear of the LORD is the beginning of wisdom: and the knowledge of the holy is understanding (Proverbs 9:10, KJV). Mathematics and natural science reveal order in creation without displacing the Creator.

Through faith we understand that the worlds were framed by the word of God (Hebrews 11:3, KJV). Scientific inquiry honors God when conducted with humility, honesty, and stewardship.

Practical Focus

Atomic structure, chemical reactions, motion, forces, and energy with lab integrity.

Competency targets for this lesson:

- Define key terms and industry-standard vocabulary at introductory level.
- Identify biblical principles that govern ethical decisions in this domain.
- Complete hands-on or scenario-based exercises in assignments and quizzes.
- Connect vocational skills to local church ministry or community service where applicable.

Professional Standards

Career track courses prepare students for further education, certification programs, or bi-vocational ministry—they do not replace licensure, trade union apprenticeships, CPA/legal counsel, or seminary ordination tracks unless explicitly stated in prerequisites.

TBM & Catalog Cross-References

- Hebrews 11:3 (KJV)

- • SCI-101

Application for Vocation and Ministry

Capstone: Physical Science Demonstration Lesson should change how you work, lead, serve customers, and witness.

Pastoral practice: Draft a ministry response, visit plan, or counseling scenario tied to this lesson. Discuss with mentor or elder board member.

Personal devotion: Write a brief prayer connecting today's vocational theme to Christ's lordship over your schedule, income, and relationships.

Local church: Share one insight with your pastor, deacon team, or small group—especially where bi-vocational ministry applies.

Evangelism: Prepare a 60-second testimony linking honest work or digital stewardship to the gospel hope you profess.

Lab, Scenario, or Field Exercise

Exercise 12: Role-play a pastoral visit, counseling intake, or board meeting scenario. Debrief using scripture and ethics checklists.

Document assumptions, resources consulted, and limitations. Submit via LMS with honor statement. Supervised field hours may count toward capstone portfolios where approved by cohort facilitator.

Discussion Questions

How does **Capstone: Physical Science Demonstration Lesson** align with Colossians 3:23 ("as to the Lord")?

What secular practice in this field most often conflicts with biblical ethics?

Which prerequisite course or TBM resource best supports this lesson?

How would you teach this topic to a high school dual-enrollment student?

What is one measurable action you will take this week based on this lesson?

Summary and Next Steps

Lesson 12 Summary: We examined **Capstone: Physical Science Demonstration Lesson** through scripture, vocational standards, and ministry application.

Action item: Complete the module quiz (70% to pass) and begin assignment work if due this week.

Preview: Continue to the capstone module. Review SPECIALIZATION_SOURCES.md or Kingdom Capital / TBM Marketing docs as listed in your syllabus.

Soli Deo gloria — whether ye eat or drink, or whatsoever ye do, do all to the glory of God (1 Corinthians 10:31).

Ministry Case Study

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Worship Integration

Select a hymn or worship song rich in biblical doctrine (e.g., "Holy, Holy, Holy," "And Can It Be," "A Mighty Fortress"). Analyze its lyrics for theological accuracy in light of this lesson. Lead family worship using that hymn, reading one supporting passage before singing. Theology should enliven corporate praise, not remain abstract.

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Historical Figure Spotlight

Research one defender of orthodoxy related to this doctrine—Augustine, Athanasius, Luther, Calvin, Spurgeon, or a modern missionary martyr. Write 150 words on how their context shaped their emphasis. Standing on their shoulders, we inherit confessions forged in controversy. Imitate their

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Supplemental Reading and Reflection

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Appendix A — Assignments

Week 01

Week 01 Assignment — Reflection Journal

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 1: Atoms, Elements, and Order in Creation

Learning objective (Bloom's taxonomy)

Students will **analyze** course content from **SCI-102 — Lesson 1: Atoms, Elements, and Order in Creation** with KJV integration and measurable evidence in the submission.

Task

Analyze: Write a 300–500 word reflection on **SCI-102 — Lesson 1: Atoms, Elements, and Order in Creation**. Include at least two KJV citations and one personal application.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Atoms, Elements

Week 02

Week 02 Assignment — Memory Verse Application

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 2: Chemical Bonds and Reactions

Learning objective (Bloom's taxonomy)

Students will **apply** course content from **SCI-102 — Lesson 2: Chemical Bonds and Reactions** with KJV integration and measurable evidence in the submission.

Task

Apply: Recite this week's memory verse from memory, then write 250 words explaining how it applies to daily discipleship.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Chemical, Bonds

Week 03

Week 03 Assignment — Expository Outline

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 3: Stoichiometry and Measurement Precision

Learning objective (Bloom's taxonomy)

Students will **outline** course content from **SCI-102 — Lesson 3: Stoichiometry and Measurement Precision** with KJV integration and measurable evidence in the submission.

Task

Outline: Produce a structured outline (400+ words) for the main passage in **SCI-102 — Lesson 3: Stoichiometry and Measurement Precision**. Include pericope titles and one-sentence themes.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Stoichiometry, Measurement

Week 04

Week 04 Assignment — Discussion Response

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 4: Acids, Bases, and Environmental Applications

Learning objective (Bloom's taxonomy)

Students will **explain** course content from **SCI-102 — Lesson 4: Acids, Bases, and Environmental Applications** with KJV integration and measurable evidence in the submission.

Task

Explain: Answer two discussion prompts from the Week 4 reading in 200 words each. Cite KJV only.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Acids, Bases

Week 05

Week 05 Assignment — Practical Ministry Step

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 5: Motion, Velocity, and Kinematics

Learning objective (Bloom's taxonomy)

Students will **demonstrate** course content from **SCI-102 — Lesson 5: Motion, Velocity, and Kinematics** with KJV integration and measurable evidence in the submission.

Task

Demonstrate: Complete one practical ministry action tied to **SCI-102 — Lesson 5: Motion, Velocity, and Kinematics** (visit, prayer walk, family worship, or service). Submit a 200-word report plus optional photo upload.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Manual review (practical/upload).

Pass: 70%

Rubric (100 points)

Week 06

Week 06 Assignment — Witness Outline

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 6: Forces, Work, and Energy Conservation

Learning objective (Bloom's taxonomy)

Students will **construct** course content from **SCI-102 — Lesson 6: Forces, Work, and Energy Conservation** with KJV integration and measurable evidence in the submission.

Task

Construct: Draft a 3-minute spoken witness outline using this week's theme. Include gospel bridge, one objection with biblical answer, and call to faith.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Forces, Energy

Week 07

Week 07 Assignment — Cross-Reference Study

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 7: Waves, Sound, and Light

Learning objective (Bloom's taxonomy)

Students will **compare** course content from **SCI-102 — Lesson 7: Waves, Sound, and Light** with KJV integration and measurable evidence in the submission.

Task

Compare: Find three cross-references that illuminate **SCI-102 — Lesson 7: Waves, Sound, and Light**. Write 400 words comparing themes (OT + NT).

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Waves, Sound

Week 08

Week 08 Assignment — Historical Context Brief

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 8: Electricity and Magnetism Intro

Learning objective (Bloom's taxonomy)

Students will **describe** course content from **SCI-102 — Lesson 8: Electricity and Magnetism Intro** with KJV integration and measurable evidence in the submission.

Task

Describe: Write 350 words on historical/literary context for **SCI-102 — Lesson 8: Electricity and Magnetism Intro**. Minimum four KJV citations.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Electricity, Magnetism

Week 09

Week 09 Assignment — Christological Connection Essay

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 9: Lab Notebooks and Reproducibility Ethics

Learning objective (Bloom's taxonomy)

Students will **evaluate** course content from **SCI-102 — Lesson 9: Lab Notebooks and Reproducibility Ethics** with KJV integration and measurable evidence in the submission.

Task

Evaluate: Explain how **SCI-102 — Lesson 9: Lab Notebooks and Reproducibility Ethics** points to Christ in 400–600 words. Use literal-grammatical-historical method.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Notebooks, Reproducibility

Week 10

Week 10 Assignment — Teaching Prep

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 10: Engineering Applications in Ministry Facilities

Learning objective (Bloom's taxonomy)

Students will **design** course content from **SCI-102 — Lesson 10: Engineering Applications in Ministry Facilities** with KJV integration and measurable evidence in the submission.

Task

Design: Prepare a 5-minute teaching outline for **SCI-102 — Lesson 10: Engineering Applications in Ministry Facilities** suitable for a small group or homeschool lesson.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Engineering, Applications

Week 11

Week 11 Assignment — Integration & Review

Course: SCI-102 · Chemistry & Physics Foundations

Week focus: SCI-102 — Lesson 12: Capstone: Physical Science Demonstration Lesson

Learning objective (Bloom's taxonomy)

Students will **synthesize** course content from **SCI-102 — Lesson 12: Capstone: Physical Science Demonstration Lesson** with KJV integration and measurable evidence in the submission.

Task

Synthesize: Synthesize the top five themes from Chemistry & Physics Foundations. 600 words, minimum six KJV citations, one paragraph on personal growth.

Submit: Text via LMS assignment form. PDF upload optional for longer work.

Grading

Grading mode: Auto-grade eligible (written text).

Pass: 70%

Rubric (100 points)

Auto-grade hints

Keywords for automated pre-check: KJV, Christ, Scripture, God, Lesson, Capstone, Physical

Week 12

Learning objective (Bloom's taxonomy)

Students will **create** an original ministry artifact synthesizing Chemistry & Physics Foundations with KJV fidelity and scholarship-gallery quality.

Creative Ministry Project — SCI-102

Course: Chemistry & Physics Foundations

Integrate professional skills from this course with gospel witness. Submit a capstone artifact (report, demo, script, or plan) with KJV integration and rubric self-assessment. Minimum 70% to pass; 75% for excellence distinction.

Grading

Grading mode: Manual review (creative upload).

Pass: 70%

Rubric (100 points)

Creative Ministry Project

Creative Ministry Project — SCI-102

Course: Chemistry & Physics Foundations

Integrate professional skills from this course with gospel witness. Submit a capstone artifact (report, demo, script, or plan) with KJV integration and rubric self-assessment. Minimum 70% to pass; 75% for excellence distinction.