Appendix

The BJU Press science materials are developed after reviewing many standards, including the National Science Education Standards (NSES). The Science Content Standards section of the NSES groups the criteria based on grade levels K–4, 5–8, and 9–12.

The table provides an overview of the areas in which *Science 6* aligns with the NSES Science Content Standards for grades 5–8. An *X* indicates that at least one component of the standard is addressed in the chapter.

The topics listed in the table are interpreted and discussed in *Science 6* text according to a Christian worldview.

Bible Action Truths

The quality and consistency of a man's decisions reflect his character. Christian character begins with justification, but it grows throughout the lifelong process of sanctification. God's grace is sufficient for the task, and a major part of God's gracious provision is His Word. The Bible provides the very "words of life" that instruct us in salvation and Christian living. By obeying God's commands and making godly decisions based on His Word, Christians can strengthen their character.

Too often Christians live by only vague guidance—for instance, that we should "do good" to all men. While doing good is desirable, more specific guidance will lead to more consistent decisions.

Consistent decisions are made when man acts on Bible principles—or Bible Action Truths. The thirty-seven Bible Action Truths (listed under eight general principles) provide Christians with specific goals for their actions and attitudes. Study the Scriptures indicated for a fuller understanding of the principles in Bible Action Truths.

Thousands have found this format helpful in identifying and applying principles of behavior. Yet, there is no "magic" in this formula. As you study the Word, you likely will find other truths that speak to you. The key for you is to study the Scriptures, look for Bible Action Truths, and be sensitive to the leading of the Holy Spirit.

1. **Salvation-Separation Principle**
   Salvation results from God's direct action. Although man is unable to work for this "gift of God," the Christian's reaction to salvation should be to separate himself from the world unto God.
   a. **Understanding Jesus Christ** (Matthew 3:17; 16:16; 1 Corinthians 15:3–4; Philippians 2:9–11) Jesus is the Son of God. He was sent to Earth to die on the cross for our sins. He was buried but rose from the dead after three days.
   b. **Repentance and faith** (Luke 13:3; Isaiah 55:7; Acts 5:30–31; Hebrews 11:6; Acts 16:31) If we believe that Jesus died for our sins, we can accept Him as our Savior. We must be sorry for our sins, turn from them, confess them to God, and believe that He will forgive us.
   c. **Separation from the world** (John 17:6, 11, 14, 18; 2 Corinthians 6:14–18; 1 John 2:15–16; James 4:4; Romans 16:17–18; 2 John 10–11) After we are saved, we should live a different life. We should try to be like Christ and not live like those who are unsaved.

2. **Sonship-Servant Principle**
   Only by an act of God the Father could sinful man become a son of God. As a son of God, however, the Christian must realize that he has been "bought with a price"; he is now Christ's servant.
   a. **Authority** (Romans 13:1–7; 1 Peter 2:13–19; 1 Timothy 6:1–5; Hebrews 13:17; Matthew 22:21; 1 Thessalonians 5:12–13) We should respect, honor, and obey those in authority over us. (attentiveness, obedience)

Bible Action Truths and Bible Promises are included as a resource. They provide specific goals for actions and attitudes and include Bible references for further study in identifying and applying principles of behavior.

   b. **Servanthood** (Philippians 2:7–8; Ephesians 6:5–8) Just as Christ was a humble servant while He was on Earth, we should also be humble and obedient. (attentiveness, helpfulness, promptness, teamwork)
   c. **Faithfulness** (1 Corinthians 4:2; Matthew 25:23; Luke 9:62) We should do our work so that God and others can depend on us. (endurance, responsibility)
   d. **Goal setting** (Proverbs 13:12, 19; Philippians 3:13; Colossians 3:2; 1 Corinthians 9:24) To be faithful servants, we must set goals for our work. We should look forward to finishing a job and going on to something more. (dedication, determination, perseverance)
   e. **Work** (Ephesians 4:28; 2 Thessalonians 3:10–12) God never honors a lazy servant. He wants us to be busy and dependable workers. (cooperativeness, diligence, initiative, industriousness, thoroughness)
   f. **Enthusiasm** (Colossians 3:23; Romans 12:11) We should do all tasks with energy and with a happy, willing spirit. (cheerfulness)

3. **Uniqueness-Unity Principle**
   No one is a mere person; God has created each individual a unique being. But because God has an overall plan for His creation, each unique member must contribute to the unity of the entire body.
   a. **Self-concept** (Psalms 8:3–8; 139; 2 Corinthians 5:17; Ephesians 2:10; 4:1–3, 11–13; 2 Peter 1:10) We are special creatures in God's plan. He has given each of us special abilities to use in our lives for Him.
   b. **Mind** (Philippians 2:5; 4:8; 2 Corinthians 10:5; Proverbs 23:7; Luke 6:45; Proverbs 4:23; Romans 7:23, 25; Daniel 1:8; James 1:8) We should give our hearts and minds to God. What we do and say really begins in our minds. We should try to think of ourselves humbly as Christ did when He lived on Earth. (orderliness)
   c. **Emotional control** (Galatians 5:24; Proverbs 16:32; 25:28; 2 Timothy 1:7; Acts 20:24) With the help of God and the power of the Holy Spirit, we should have control over our feelings. We must be careful not to act out of anger. (flexibility, self-control)
   d. **Body as a temple** (1 Corinthians 3:16–17; 6:19–20) We should remember that our bodies are the dwelling place of God's Holy Spirit. We should keep ourselves pure, honest, and dedicated to God's will.
   e. **Unity of Christ and the church** (John 17:21; Ephesians 2:19–22; 5:23–32; 2 Thessalonians 3:6, 14–15) Since we are saved, we are now part of God's family and should unite ourselves with others to worship and grow as Christians. Christ is the head of His church, which includes all believers. He wants us to work together as His church in carrying out His plans, but He forbids us to work in fellowship with disobedient brethren.

4. **Holiness-Habit Principle**
Believers are declared holy as a result of Christ's finished action on the cross. Daily holiness of life, however, comes from forming godly habits. A Christian must consciously establish godly patterns of action; he must develop habits of holiness.

   a. **Sowing and reaping** (Galatians 6:7–8; Hosea 8:7; Matthew 6:1–8) We must remember that we will be rewarded according to the kind of work we have done. If we are faithful, we will be rewarded. If we are unfaithful, we will not be rewarded. We cannot fool God. (thriftiness)

   b. **Purity** (1 Thessalonians 4:1–7; 1 Peter 1:22) We should try to live lives that are free from sin. We should keep our minds, words, and deeds clean and pure.

   c. **Honesty** (2 Corinthians 8:21; Romans 12:17; Proverbs 16:8; Ephesians 4:25) We should not lie. We should be honest in every way. Even if we could gain more by being dishonest, we should still be honest. God sees all things. (fairness)

   d. **Victory** (1 Corinthians 10:13; Romans 8:37; 1 John 5:4; John 16:33; 1 Corinthians 15:57–58) If we constantly try to be pure, honest, and Christlike, with God's help we will be able to overcome temptations.

5. **Love-Life Principle**
We love God because He first loved us. God's action of manifesting His love to us through His Son demonstrates the truth that love must be exercised. Since God acted in love toward us, believers must act likewise by showing godly love to others.

   a. **Love** (1 John 3:11, 16–18; 4:7–21; Ephesians 5:2; 1 Corinthians 13; John 15:17) God's love to us was the greatest love possible. We should, in turn, show our love for others by our words and actions. (courtesy, compassion, hospitality, kindness, thankfulness to men, thoughtfulness)

   b. **Giving** (2 Corinthians 9:6–8; Proverbs 3:9–10; Luke 6:38) We should give cheerfully to God the first part of all we earn. We should also give to others unselfishly. (hospitality, generosity, sharing, unselfishness)

   c. **Evangelism and missions** (Psalm 126:5–6; Matthew 28:18–20; Romans 1:16–17; 2 Corinthians 5:11–21) We should be busy telling others about the love of God and His plan of salvation. We should share in the work of foreign missionaries by our giving and prayers.

   d. **Communication** (Ephesians 4:22–29; Colossians 4:6; James 3:2–13; Isaiah 50:4) We should have control of our tongues so that we will not say things displeasing to God. We should encourage others and be kind and helpful in what we say.

   e. **Friendliness** (Proverbs 18:24; 17:17; Psalm 119:63) We should be friendly to others, and we should be loyal to those who love and serve God. (loyalty)

6. **Communion-Consecration Principle**
Because sin separates man from God, any communion between man and God must be achieved by God's direct action of removing sin. Once communion is established, the believer's reaction should be to maintain a consciousness of this fellowship by living a consecrated life.

   a. **Bible study** (1 Peter 2:2–3; 2 Timothy 2:15; Psalm 119) To grow as Christians, we must spend time with God daily by reading His Word. (reverence for the Bible)

   b. **Prayer** (1 Chronicles 16:11; 1 Thessalonians 5:17; John 15:7, 16; 16:24; Psalm 145:18; Romans 8:26–27) We should bring all our requests to God, trusting Him to answer them in His own way.

   c. **Spirit-filled** (Ephesians 5:18–19; Galatians 5:16, 22–23; Romans 8:13–14; 1 John 1:7–9) We should let the Holy Spirit rule in our hearts and show us what to say and do. We should not say and do just what we want to, for those things are often wrong and harmful to others. (gentleness, joyfulness, patience)

   d. **Clear conscience** (1 Timothy 1:19; Acts 24:16) To be good Christians, we cannot have wrong acts, thoughts or words bothering our consciences. We must confess them to God and to those people against whom we have sinned. We cannot live lives close to God if we have guilty consciences.

   e. **Forgiveness** (Ephesians 4:30–32; Luke 17:3–4; Colossians 3:13; Matthew 18:15–17; Mark 11:25–26) We must ask forgiveness of God when we have done wrong. Just as God forgives our sins freely, we should forgive others when they do wrong things to us.

7. **Grace-Gratitude Principle**
Grace is unmerited favor. Man does not deserve God's grace. However, after God bestows His grace, believers should react with an overflow of gratitude.

   a. **Grace** (1 Corinthians 15:10; Ephesians 2:8–9) Without God's grace we would be sinners on our way to hell. He loved us when we did not deserve His love and provided for us a way to escape sin's punishment by the death of His Son on the cross.

   b. **Exaltation of Christ** (Colossians 1:12–21; Ephesians 1:17–23; Philippians 2:9–11; Galatians 6:14; Hebrews 1:2–3; John 1:1–4, 14; 5:23) We should realize and remember at all times the power, holiness, majesty, and perfection of Christ, and we should give Him the praise and glory for everything that is accomplished through us.

   c. **Praise** (Psalm 107:8; Hebrews 13:15; 1 Peter 2:9; Ephesians 1:6; 1 Chronicles 16:23–36; 29:11–13) Remembering God's great love and goodness toward us, we should continually praise His name. (thankfulness to God)

   d. **Contentment** (Philippians 4:11; 1 Timothy 6:6–8; Psalm 77:3; Proverbs 15:16; Hebrews 13:5) Money, houses, cars, and all things on Earth will last only for a little while. God has given us just what He meant for us to have. We should be happy and content with what we have, knowing that God will provide for us all that we need. We should also be happy wherever God places us.

   e. **Humility** (1 Peter 5:5–6; Philippians 2:3–4) We should not be proud and boastful but should be willing to be quiet and in the background. Our reward will come from God on Judgment Day, and men's praise to us here on Earth will not matter at all. Christ was humble when He lived on Earth, and we should be like Him.

8. **Power-Prevailing Principle**
Believers can prevail only as God gives the power. "I can do all things through Christ" (Phil. 4:13). God is the source of our power used in fighting the good fight of faith.

   a. **Faith in God's promises** (2 Peter 1:4; Philippians 4:6; Romans 4:16–21; 1 Thessalonians 5:18; Romans 8:28; 1 Peter 5:7; Hebrews 3:18; 4:11) God always remains true to His promises. Believing that He will keep all the promises in His Word, we should be determined fighters for Him.

   b. **Faith in the power of the Word of God** (Hebrews 4:12; Jeremiah 23:29; Psalm 119; 1 Peter 1:23–25) God's Word is powerful and endures forever. All other things will pass away, but God's Word shall never pass away because it is written to us from God, and God is eternal.

   c. **Fight** (Ephesians 6:11–17; 2 Timothy 4:7–8; 1 Timothy 6:12; 1 Peter 5:8–9) God does not have any use for lazy or cowardly fighters. We must work and fight against sin, using the Word of God as our weapon against the Devil. What we do for God now will determine how much He will reward us in heaven.

   d. **Courage** (1 Chronicles 28:20; Joshua 1:9; Hebrews 13:6; Ephesians 3:11–12; Acts 4:13, 31) God has promised us that He will not forsake us; therefore, we should not be afraid to speak out against sin. We should remember that we are armed with God's strength.

Bible Promises

A. **Liberty from Sin**—Born into God's spiritual kingdom, a Christian is enabled to live right and gain victory over sin through faith in Christ. (Romans 8:3–4—"For what the law could not do, in that it was weak through the flesh, God sending his own Son in the likeness of sinful flesh, and for sin, condemned sin in the flesh: that the righteousness of the law might be fulfilled in us, who walk not after the flesh, but after the Spirit.")

B. **Guiltless by the Blood**—Cleansed by the blood of Christ, the Christian is pardoned from the guilt of his sins. He does not have to brood or fret over his past because the Lord has declared him righteous. (Romans 8:33—"Who shall lay any thing to the charge of God's elect? It is God that justifieth." Isaiah 45:24—"Surely, shall one say, in the Lord have I righteousness and strength: even to him shall men come; and all that are incensed against him shall be ashamed.")

C. **Basis for Prayer**—Knowing that his righteousness comes entirely from Christ and not from himself, the Christian is free to plead the blood of Christ and to come before God in prayer at any time. (Romans 5:1–2—"Therefore being justified by faith, we have peace with God through our Lord Jesus Christ: by whom also we have access by faith into this grace wherein we stand, and rejoice in hope of the glory of God.")

D. **Identified in Christ**—The Christian has the assurance that God sees him as a son of God, perfectly united with Christ. He also knows that he has access to the strength and the grace of Christ in his daily living. (Galatians 2:20—"I am crucified with Christ: nevertheless I live; yet not I, but Christ liveth in me: and the life which I now live in the flesh I live by the faith of the Son of God, who loved me, and gave himself for me." Ephesians 1:3—"Blessed be the God and Father of our Lord Jesus Christ, who hath blessed us with all spiritual blessings in heavenly places in Christ.")

E. **Christ as Sacrifice**—Christ was a willing sacrifice for the sins of the world. His blood covers every sin of the believer and pardons the Christian for eternity. The purpose of His death and Resurrection was to redeem a people to Himself. (Isaiah 53:4–5—"Surely he hath borne our griefs, and carried our sorrows: yet we did esteem him stricken, smitten of God, and afflicted. But he was wounded for our transgressions, he was bruised for our iniquities: the chastisement of our peace was upon him; and with his stripes we are healed." John 10:27–28—"My sheep hear my voice, and I know them, and they follow me: and I give unto them eternal life; and they shall never perish, neither shall any man pluck them out of my hand.")

F. **Christ as Intercessor**—Having pardoned them through His blood, Christ performs the office of High Priest in praying for His people. (Hebrews 7:25—"Wherefore he is able also to save them to the uttermost that come unto God by him, seeing he ever liveth to make intercession for them." John 17:20—"Neither pray I for these alone, but for them also which shall believe on me through their word.")

G. **Christ as Friend**—In giving salvation to the believer, Christ enters a personal, loving relationship with the Christian that cannot be ended. This relationship is understood and enjoyed on the believer's part through fellowship with the Lord through Bible reading and prayer. (Isaiah 54:5—"For thy Maker is thine husband; the Lord of hosts is his name; and thy Redeemer the Holy One of Israel; The God of the whole earth shall he be called." Romans 8:38–39—"For I am persuaded, that neither death, nor life, nor angels, nor principalities, nor powers, nor things present, nor things to come, nor height, nor depth, nor any other creature, shall be able to separate us from the love of God, which is in Christ Jesus our Lord.")

H. **God as Father**—God has appointed Himself to be responsible for the well-being of the Christian. He both protects and nourishes the believer, and it was from Him that salvation originated. (Isaiah 54:17—"No weapon that is formed against thee shall prosper; and every tongue that shall rise against thee in judgment thou shalt condemn. This is the heritage of the servants of the Lord, and their righteousness is of me, saith the Lord." Psalm 103:13—"Like as a father pitieth his children, so the Lord pitieth them that fear him.")

I. **God as Master**—God is sovereign over all creation. He orders the lives of His people for His glory and their good. (Romans 8:28—"And we know that all things work together for good to them that love God, to them who are the called according to his purpose.")

Explaining the Gospel

One of the greatest desires of Christian teachers is to lead children to the Savior. God has called you to present the gospel to your students so that they may repent and trust Christ, thereby being acceptable to God through Christ.

Relying on the Holy Spirit, you should take advantage of the opportunities that arise during lessons for presenting the good news of Jesus Christ. Ask questions to personally apply the Ten Commandments to your students (e.g., What is sin? Have you ever (name sin)? Are you a sinner?). You may also ask questions to discern the child's sincerity or any misunderstanding he might have (e.g., What is the gospel? What does it mean to repent? Can you do anything to save yourself?). Read verses from your Bible. You may find the following outline helpful, especially when dealing individually with a child.

1. **I have sinned (Romans 3:23).**
   - Sin is disobeying God's Word (1 John 3:4). I break the Ten Commandments (Exodus 20:2–17) by loving other people or things more than I love God, worshiping other things or people, using God's name lightly, disobeying and dishonoring my parents, lying, stealing, cheating, thinking harmful and sinful thoughts, or wanting something that belongs to somebody else.
   - Therefore, I am a sinner (Psalm 51:5, 58:3; Jeremiah 17:9).
   - God is holy and must punish me for my sin (Isaiah 6:3; Romans 6:23).
   - God hates sin, and there is nothing that I can do to get rid of my sin by myself (Titus 3:5; Romans 3:20, 28). I cannot make myself become a good person.
2. **Jesus died for me (Romans 5:8).**
   - God loves me even though I am a sinner.
   - He sent His Son, Jesus Christ, to die on the cross for me. Christ is sinless and did not deserve death. Because of His love for me, Christ took my sin on Himself and was punished in my place (1 Peter 2:24a; 1 Corinthians 15:3; John 1:29).
   - God accepted Christ's death as the perfect substitution for the punishment of my sin (2 Corinthians 5:21).
   - Three days later, God raised Jesus from the dead. Jesus is alive today and offers salvation to all. This is the gospel of Jesus Christ: He died on the cross for our sins according to the Scriptures, and He rose again the third day according to the Scriptures (1 Corinthians 15:1–4; 2 Peter 3:9; 1 Timothy 2:4).
3. **I need to put my trust in Jesus (Romans 10:9–10, 13–14a).**
   - I must repent (turn away from my sin) and trust only Jesus Christ for salvation (Mark 1:15).
   - If I repent and believe in what Jesus has done, I am putting my trust in Jesus.
   - Everyone who trusts in Jesus is forgiven of sin (Acts 2:21) and will live forever with God (John 3:16). I am given His righteousness and become a new creation, with Christ living in me (2 Corinthians 5:21; Colossians 1:27).

If a child shows genuine interest and readiness, ask, "Are you ready to put your trust in Jesus and depend on only Christ for salvation?" If he says yes, then ask him to talk to God about this. Perhaps he will pray something like the following:

> God, I know that I've sinned against You and that You hate sin, but that You also love me. I believe that Jesus died to pay for my sin and that He rose from the dead, so I put my trust in Jesus to forgive me and give me a home with You forever. In Jesus' name I pray. Amen.

Show the child how to know from God's Word that he is forgiven and in God's family (1 John 5:12–13; John 3:18). Encourage him to follow Jesus by obeying Him each day. Tell him that whenever he sins, he will be forgiven as soon as he confesses those sins to God (1 John 1:9).

Materials List

Standard Science Supplies

balance
calculator
goggles
magnifying glass
meter stick
metric beakers
metric measuring cups
metric measuring spoons
protractor
spring scale
stopwatch
timer
thermometer

Basic Supplies

buckets
colored pencils
construction paper
containers
crayons
dishpan
glue
newspaper
paper towels
scissors
tape
water

Materials by Chapter

Materials marked with X are used only for enrichment demonstrations and activities.

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
aerosol can	X														
aluminum foil		X						X		X	X				
ammonia					X		X								
antacids, 4 commerical varieties							X								
apple or orange slices with seeds												X			
apple or potato slices					X										
appliances, several small								X							
bag of candy									X						
bag, black plastic			X								X				
bag, plastic sandwich		X							X	X					
bags, resealable		X			X		X								
baking soda	X						X								
balance		X	X							X					
ball, basketball											X				
ball, golf										X					
ball, rubber										X					
ball, soccer											X				
ball, softball											X				
ball, table tennis										X					
balloons				X			X			X	X				
batteries, C- or D-cell								X							
batteries, various sizes								X							

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
battery, 6-volt								X							
BBs									X		X				
bead, small											X				
blindfold														X	
blocks, toy					X				X						
board, 30 cm × 80 cm									X						
Borax							X								
bottle, 500 mL clear plastic		X					X								
bottle or container, small	X														
box, cardboard											X				
buckets		X	X		X										X
Bunsen burner										X					
butter		X													
calculator						X			X						
can, empty soup		X													
can, soft drink										X					
candle and candle holder										X				X	
card stock										X	X				
cardboard, stiff	X									X					
cardboard tubes			X	X	X				X						
carnation, white						X									
carrot tops												X			
checkers			X				X								
cheesecloth		X	X		X										
chocolate milk mix										X					
clay, dry		X													
clay, modeling	X	X		X											
clothespin, spring											X				
coins								X	X						
colored pencils					X		X	X		X					
compass, drawing													X		
cones, conifer, assorted male and female												X			
container, large							X					X			
containers, clear plastic													X		

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
containers, cylindrical			X												
containers, plastic with snap-on lids		X													
cooking oil			X												
cooking spray		X													
copper, small piece								X							
cotton balls			X												
cotton swabs					X										
craft sticks											X				
crayons		X											X		
crayon sharpener		X													
crispy rice cereal		X													
cups, clear plastic, any size			X		X		X	X	X			X	X		
cups, clear plastic 12 oz		X	X												
cups, clear plastic 9 oz		X													
cups, foam, any size	X										X			X	X
cups, foam 12 or 16 oz		X													
dehydrated food											X				
detergent, liquid													X		
dishpan, deep					X					X					
dish soap, liquid			X												
droppers, medicine or eye	X		X				X								X
earthworm					X										
eggs, raw														X	
electric fan			X												
electromagnet from appliance								X							
electronic devices, small											X				
eraser, chalkboard									X						X
fabric		X													
family tree													X		
fern						X									
fettuccine noodles, dry	X														
field guide, plants						X									
field guide, trees						X									
file folder							X								

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
fish bowl, glass					X									X	
fishing line											X				
flashlight					X					X	X				
flour										X	X				X
flower, large												X			
flower or plant that has died			X												
flower pots													X		
flowering plants (marigold or petunia)													X		
foam balls							X			X					
foam block, 20 cm × 25 cm	X														
food coloring			X			X									
freezer		X													
fruits, assorted dry and fleshy												X			
funnel	X														
gallon jug or pitcher			X												
glitter															X
globe											X				
gloves, latex															X
glue, white							X				X		X		
goggles, safety	X	X	X				X			X					X
grasshopper or picture of grasshopper					X										
grass tufts			X												
gravel													X		
hammer			X							X					
helmet, protective											X			X	
hot plate	X	X	X												
hydrogen peroxide, 3%							X								
ice		X			X										
ice cube tray		X													
insulators, various								X							
iron, electric		X													
iron filings								X							
jar, large-mouth glass		X			X										
jars, plastic with twist-on lids														X	

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
keys, assorted														X	
knife, small												X			
labels, blank										X					
lamp, 3-way, unshaded										X					
lamp, unshaded					X					X	X				
leaves, dried					X										
leaves, fresh			X												
lemon juice							X								
lenses, concave and convex										X					
level, carpenter's	X														
levers, assorted									X						
light bulb, 3-way										X					
light bulb, 40-watt										X					
light bulbs with sockets								X							
lights, Christmas tree								X							
litmus paper, red and blue							X								
magnet, horseshoe								X							
magnets, bar			X		X			X							
magnets, disk-shaped								X							
magnifying glass				X	X					X		X			
map, blank world															X
map, road													X		
map, world	X	X	X		X					X					
marble, large											X				
marble, small											X				
marker, permanent										X					
marshmallows, large	X	X		X							X				
matches										X					
mealworms					X										
measuring cups, metric	X	X			X		X								
measuring tape										X					
measuring wheel											X				
meat tenderizer													X		
metals, various			X					X							

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
meter stick		X			X				X	X	X				
microscope				X											
microscope slides, prepared				X											
milk							X								
mirror					X										
model car				X											
model 3-stage rocket (optional)											X				
mushroom cap												X			
nail, common, 6d										X					
nail, finishing (small)		X								X					
needle with large eye										X					
newspaper										X	X				
note card									X	X					X
notepad, plastic cover					X										
oatmeal or wheat bran					X										
overhead projector (optional)										X					
overhead transparency					X			X							
padlock with key						X								X	
paint											X				
paintbrushes											X				
pan, foil baking (9" × 13")			X												
pan, foil baking, small		X	X												
pan, foil loaf		X													
pan, saucepan, large	X	X													
paper				X			X								
paper clips, large metal								X			X				
paper fasteners											X				
paper hole punches		X													
paper towels			X			X		X			X				
paper, black					X			X		X	X	X			
paper, blue construction													X		
paper, graph										X					
paper, green construction													X		
paper, orange construction													X		

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
paper, unlined					X										
paper, white				X	X					X	X	X			
paper, yellow construction													X		
pasta, various, uncooked				X											
peas, dry											X				
pebbles			X		X										
pen										X					
pencil sharpener, battery or electric				X											
pennies	X								X		X				
pH indicator paper							X								
pH meter							X								
picture of a bison				X											
picture of a car				X											
picture of a flying gecko or flying squirrel					X										
picture of a hang glider					X										
picture of a jellyfish					X										
picture of a mole					X										
picture of a mountain lion				X											
picture of a mountain range										X					
picture of a porcupine					X										
picture of a rhinoceros					X										
picture of a sea star					X										
picture of a snail					X										
picture of a swan or duck					X										
picture of a whale					X										
picture of a woodpecker					X										
picture of an octopus					X										
picture of the solar system											X				
picture of the Statue of Liberty						X									
pictures of flowers						X									
pictures of the Grand Canyon		X													
pictures of various plants						X									
pictures of Yellowstone National Park	X														
pictures, various calendar			X												

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
pie plate, foil											X				
pie plate (glass)	X			X											
pinwheel			X												
plastic lacing															X
plastic wrap											X				
pony beads, assorted colors															X
posterboard, assorted colors														X	
posterboard, black														X	
posterboard, white														X	
posterboard, white or colored							X								
potato chips (2 different brands)														X	
potato with sprouts												X			
potting soil		X	X		X							X			
power bill, electric								X							
prism										X					
protractor		X	X								X				
pulley									X						
quilt batting					X										
raw wheat germ													X		
red cabbage juice							X								X
resources about animals					X										
resources about diseases and discoveries															X
resources about planets											X				
resources about plants						X									
resources about roller coasters									X						
rocks, assorted small		X													
rocks, igneous	X														
rope			X												
rubber bands		X			X				X	X	X				
rubber spatula					X										
rubbing alcohol													X		
ruler (centimeter and inch)		X		X	X	X			X	X	X	X	X	X	
salt			X				X	X							
sand		X			X						X				

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
scissors, heavy duty		X	X								X				
scissors, school													X	X	
seed catalogs or seed packets		X				X									
seed, mustard											X				
seeds, carrot												X			
seeds, lima bean												X			
seeds, poppy											X				
self-stick white dots										X					
shoebox								X							
shortening, solid					X										
simple machines, various									X						
snail					X										
sodium hydroxide or lye mixture solution															X
soft drinks (2 different brands)														X	
soil samples		X													
sponge, manmade	X				X										
sponge, natural					X										
spoon, large		X													
spoons			X												
spray bottle		X													
spring scale									X						
spring toy	X														
staples, bar of								X							
star charts										X					
sticks (twigs)	X		X		X	X									
stirring sticks							X								
stopwatch or clock with second hand		X	X		X		X				X			X	
straw, drinking											X				
string	X					X			X		X				
suction cups					X										
sugar		X		X											
sunglasses											X				
sunscreen											X				
tape, clear					X						X			X	

Materials	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
tape, electrical								X							
tape, masking					X				X	X	X				
tape measure						X				X					
tea containing gingko						X									
tea kettle			X												
thermometers					X		X								
thread spool, empty									X						
thread, spools of									X	X					
tongs		X													
toothpick					X							X	X	X	
toy animal or doll				X											
toy car									X						
trail mix							X								
travel brochures											X				
tubing, flexible clear plastic									X						
umbrella, dark										X					
vinegar	X				X		X	X							
vise		X													
voltmeter								X							
water	X	X	X	X	X	X	X	X				X	X	X	
water, distilled							X								X
watering can or large salt shaker		X	X												
waxed paper		X													
wire, insulated								X							
wire screen					X										
wood, small pieces		X													
yeast				X			X								

National Science Education Content Standards

BJU Press *Science 6* alignment with NSES Science Content Standards for grades 5–8

Chapter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Science as Inquiry															
Abilities necessary to do scientific inquiry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Understandings about scientific inquiry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Physical Science															
Properties and changes of properties in matter							X								
Motions and forces									X						
Transfer of energy			X					X	X						
Life Science															
Structure and function in living things				X	X	X						X	X	X	X
Reproduction and heredity				X								X	X		
Regulation and behavior				X											
Populations and ecosystems					X	X									
Diversity and adaptations of organisms				X	X	X									
Earth and Space Science															
Structure of the earth system	X	X	X												
Earth's history	X		X												
Earth in the solar system											X				
Science and Technology															
Abilities of technological design	X	X	X				X	X	X		X		X		X
Understandings about science and technology	X	X	X	X			X	X	X		X		X		X
Science in Personal and Social Perspectives															
Personal health			X											X	X
Populations, resources, and environments			X												
Natural hazards	X	X	X												
Risks and benefits	X	X													
Science and technology in society	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
History and Nature of Science															
Science as a human endeavor	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nature of science	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
History of science	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Unifying Concepts and Processes															
Systems, order, and organization	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Evidence, models, and explanation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Change, constancy, and measurement	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Evolution* and equilibrium	X		X	X	X	X	X			X	X	X			
Form and function	X			X	X	X	X	X	X	X	X	X	X	X	X

* Evolution is presented as a theory to be critically examined from a Christian worldview.

Index

D

E

F

G

H

I

J

K

L

M

T

U

V

W

X

Z

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- Activity Manual Answer Key
- Bulletin Board Ideas
- Diagrams
- Game Bank
- Instructional Aids
- Materials List
- National Science Education Content Standards
- Quizzes and Answer Key
- Rubrics
- Science Fair Information

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Windows

Insert the CD. The CD is designed to start automatically if your computer is set to allow it. If it does not start automatically, click "Run" if given the option. You may also choose to open the folder to view the CD's files and double-click "Startup.exe" to start the CD. Read and accept the license agreement to begin using the Teacher's Toolkit materials. Navigate within the CD using the bookmarks on the left side of the screen.

Mac

Insert the CD, click on the CD icon, and open the file "main.pdf" to begin using the Teacher's Toolkit materials.

Minimum System Requirements

Processor: Pentium IV
Operating System: Windows XP or Mac OS Leopard (version 10.5)
RAM: 256 MB
Display: 1024 × 768
Adobe Reader: version 9.0

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