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Introduction

Core Physical Science I is one of the three courses in the Core Science I Collection. It is an introductory course that teaches about how senses are used to make observations, the natures and states of matter, types of motions, the properties and states of water, and the nature and uses of magnets. The Course has 20 lessons organized in 5 Units and its learning objectives align with Common Core Science objectives for grades K to 2. There are 255 audio-supported instruction pages, 53 printable activity sheet pages, 94 defined vocabulary words, and a set of 200 Quiz questions.

Unit 1: Our Senses & Properties of Objects

Lesson 1: Things We Can See

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter
- PS4 Waves and Their Application to Information Technologies for Information Transfer
- PS4.C Information Technologies and Instrumentation

Learning Objectives

- to learn about use of vision
- to learn about things and the properties of things we can identify by sight
- to learn vocabulary words to describe the appearance of things we observe by sight

Defined Vocabulary Words

- eye, sight, sense, color, size, shape, weight, sorting

Activity Type

- Fill out the chart with words that describe the objects using color, shape, or weight.
- Circle the correct answers to complete the sentence.

Lesson Components

Total Learning Objects – 30

Instruction Pages - 16

Activity Pages - 6

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Things We Can Hear

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter
- PS4 Waves and Their Application to Information Technologies for Information Transfer
- PS4.C Information Technologies and Instrumentation

Learning Objectives

- to learn about use of hearing
- to learn about things and the properties of things we can identify by sound
- to learn vocabulary words to describe sounds

Defined Vocabulary Words

- ear, hearing, listening, eardrum, speech, music, sound, noise

Activity Type

- Match pictures with the sounds they make.

Lesson Components

Total Learning Objects – 25

Instruction Pages - 13

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Things We Can Smell

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter
- PS4 Waves and Their Application to Information Technologies for Information Transfer
- PS4.C Information Technologies and Instrumentation

Learning Objectives

- to learn about use of smell
- to learn vocabulary words to describe smells
- to learn about things and properties of things we can identify by smell

Defined Vocabulary Words

- nose, smell, scents, odor, sweet, sour

Activity Type

- Look at the pictures and circle how each of the items smell.

Lesson Components

Total Learning Objects – 23

Instruction Pages - 10

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: Things We Can Taste

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter

- PS4 Waves and Their Application to Information Technologies for Information Transfer
- PS4.C Information Technologies and Instrumentation

Learning Objectives

- to learn about the use of taste
- to learn about things and properties of things we can identify by taste
- to learn vocabulary words to describe how things taste

Defined Vocabulary Words

- sweet, sour, bitter, salty, taste, taste buds, tongue

Activity Type

- Circle the taste that each picture could have.

Lesson Components

Total Learning Objects – 25

Instruction Pages - 13

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 5: Things We Can Feel

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter
- PS4 Waves and Their Application to Information Technologies for Information Transfer
- PS4.C Information Technologies and Instrumentation

Learning Objectives

- to learn about the use of touch
- to learn about things and the properties of things we can identify by touch
- to learn vocabulary words to describe how something feels to the touch

Defined Vocabulary Words

- feel, touch, skin, nerves, texture, smooth, rough, sharp, dull, firmness, hard, soft

Activity Type

- Circle the pictures that would feel soft to touch. Put an X over the pictures that would be sharp to touch.

Lesson Components

Total Learning Objects – 29

Instruction Pages - 15

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 2: Matter**Lesson 1: Matter, Mass, & Volume**

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter

Learning Objectives

- to learn about the nature of matter
- to learn about the concepts of mass and volume
- to learn about matter in solid, liquid, and gas states

Defined Vocabulary Words

- matter, mass, balance scale, volume, measuring cup, states of matter

Activity Type

- Fill in the blanks.
- Draw a picture of something made of matter.

Lesson Components

Total Learning Objects – 24

Instruction Pages - 11

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: States of Matter: Solids

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter

Learning Objectives

- to learn about the properties of solids
- to learn about the shape and volume of solids

Defined Vocabulary Words

- solids, shape, volume

Activity Type

- Fill in the blanks.
- Draw a picture of something that is a solid.

Lesson Components

Total Learning Objects – 28

Instruction Pages - 15

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: States of Matter: Liquids

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter

Learning Objectives

- to learn about the properties of liquids
- to learn about the shape and volume of liquids

Defined Vocabulary Words

- liquids, shape, volume, measuring cup

Activity Type

- Fill in the blanks.
- Draw a picture of something that is a liquid.

Lesson Components

Total Learning Objects – 28

Instruction Pages - 15

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 4: States of Matter: Gases

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter

Learning Objectives

- to learn about the properties of gases
- to learn about the shape and volume of gases

Defined Vocabulary Words

- gases, gaseous, shape, spread, volume

Activity Type

- Fill in the blanks.
- Describe why it is hard to draw a gas.

Lesson Components

Total Learning Objects – 30

Instruction Pages - 17

Activity Pages - 3

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 5: Melting & Freezing

Common Core Standards

- PS1 Matter and Its Interactions
- PS1.A Structure and Properties of Matter
- PS1.B Chemical Reactions

Learning Objectives

- to learn about the effect of temperature on the states of matter
- to learn about solids melting
- to learn about melting point
- to learn about liquids freezing or solidifying
- to learn about freezing point

Defined Vocabulary Words

- melting, melting point, solidification, freezing, freezing point, heat energy, temperature, hot, cold

Activity Type

- Draw pictures of each of the following: melting, solidification, and heat energy.

Lesson Components

Total Learning Objects – 27

Instruction Pages - 15

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 6: Boiling, Evaporation, & Condensation

Common Core Standards

PS1 Matter and Its Interactions

PS1.A Structure and Properties of Matter

PS1.B Chemical Reactions

Learning Objectives

- to learn about liquids evaporating
- to learn about liquids boiling
- to learn about boiling point
- to learn about gases condensing

Defined Vocabulary Words

- boil, boiling point, evaporation, condensation, heat energy, temperature

Activity Type

- Draw pictures of each of the following: evaporation, condensation, and heat energy.

Lesson Components

Total Learning Objects – 27

Instruction Pages - 15

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 3: Water

Lesson 1: States of Water

Common Core Standards

PS1 Matter and Its Interactions

PS1.A Structure and Properties of Matter

PS1.B Chemical Reactions

Learning Objectives

- to learn about the physical states of water

Defined Vocabulary Words

- water, ice, evaporate, melt, freeze, heat energy, temperature, condense, snow, rain

Activity Type

- Complete the states of water image by putting the words in the correct blanks.

Lesson Components

Total Learning Objects – 28

Instruction Pages - 16

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Interactions with Water

Common Core Standards

PS1 Matter and Its Interactions

PS1.A Structure and Properties of Matter

PS1.B Chemical Reactions

Learning Objectives

- to learn about how different substances interact with water
- to learn about solids that dissolve in water
- to learn about the effect of temperature on the dissolving of substances

Defined Vocabulary Words

- interaction, mix, dissolve

Activity Type

- Put an X on the liquids that do NOT mix with water.
- Put an X on the solids that do NOT dissolve in water.

Lesson Components

Total Learning Objects – 28

Instruction Pages - 14

Activity Pages - 4

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Sink & Float

Common Core Standards

PS1 Matter and Its Interactions

PS1.A Structure and Properties of Matter

Learning Objectives

- to learn about things that sink or float in water

Defined Vocabulary Words

- sink, float

Activity Type

- From the list of words given, write the word in the box above the water if it floats and write the word in the box in the water if it sinks.

Lesson Components

Total Learning Objects – 21

Instruction Pages - 9

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 4: Motion

Lesson 1: Ways Objects Move

Common Core Standards

PS2.A Forces and Motions

Learning Objectives

- to learn the ways objects move

Defined Vocabulary Words

- motion, position, speed, direction, method of moving

Activity Type

- Draw an example of something that represents each word.

Lesson Components

Total Learning Objects – 23

Instruction Pages - 11

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: Motions All Around Us

Common Core Standards

PS2.A Forces and Motions

PS2.B Types of Interactions

PS2.C Stability and Instability in Physical Systems

Learning Objectives

- to learn about common types of motions

Defined Vocabulary Words

- back and forth, slide, spins

Activity Type

- Label each picture with words from the word box that describes how it moves.

Lesson Components

Total Learning Objects – 21

Instruction Pages - 9

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Vibration & Sound

Common Core Standards

PS2.A Forces and Motions

PS4: Waves and Their Applications to Technologies for Information Transfer

PS4.A Wave Properties

Learning Objectives

- to learn about sound
- to learn about vibration

Defined Vocabulary Words

- vibration, sound, reed

Activity Type

- Match the musical instrument with the part that vibrates to make sound.

Lesson Components

Total Learning Objects – 21

Instruction Pages - 9

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Unit 5: Magnets

Lesson 1: Parts of a Magnet

Common Core Standards

PS2.A Forces and Motions

Learning Objectives

- to learn the parts of a magnet

Defined Vocabulary Words

- magnet, poles, north pole, south pole

Activity Type

- Show where the poles are on each magnet.

Lesson Components

Total Learning Objects – 21

Instruction Pages - 9

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 2: How Magnets React

Common Core Standards

PS2.A Forces and Motions

Learning Objectives

- to learn how magnets attract and repel

Defined Vocabulary Words

- magnet, magnetic field, magnetism, attract, repel, poles

Activity Type

- Use arrows to show what happens when each pair of magnets comes close together.

Lesson Components

Total Learning Objects – 23

Instruction Pages - 11

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Lesson 3: Uses of Magnets

[Common Core Standards](#)

PS2.A Forces and Motions

[Learning Objectives](#)

- to learn about common uses of magnets

[Defined Vocabulary Words](#)

- magnet, magnetism, poles

[Activity Type](#)

- Draw a picture and write a sentence about how you would use a magnet.

[Lesson Components](#)

Total Learning Objects – 21

Instruction Pages - 9

Activity Pages - 2

Quiz Questions – 10 total questions; 5 randomly selected to populate quiz

Test Questions – 50 total questions; 10 total per Lesson of which 3 are randomly selected to populate test

Appendix – Reading & Writing Word Skills

Unit 1: Lesson 1

Words with Long 'e' Vowel Sound

ee in green

Also: see, bee, tree, glee, knee, screen, teen, kleenex, between, deep, sleep, steep, creep, greet, beet, and meet.

Words with Long 'a' Vowel Sound

ei in weight

Also: freight, sleigh, and neighbor.

Other spellings also make a **long 'a'** sound: bake, cake, fake, lake, make, rake, take, male, tale, sale, date, mate, rate, gate. Also: mail, sail, tail, jail, and nail.

Words with the 'ow' Vowel Sound

ow in brown

Also: cow, bow, now, clown, crown, frown, gown, and town

The 'ow' spelling can also make a **long 'o'** sound: know, bow, sow, grow, and mow.

Words with the 'ou' Vowel Sound

ou in round

Also: ground, mound, pound, sound, loud, proud, and cloud.

Unit 1: Lesson 2

Vowel Sounds

ea in hearing and ear

Also: read, deal, meal, steal, cream, steam, team, bean, clean, lean, beat, meat, neat, and seat.

ou in sound and loud

Also: bounce, ounce, pounce, trounce, cloud, proud, bound, boundary, ground, mound, pound, noun, pout, and trout.

oi in noise

Also: choice, rejoice, oil, boil, coil, soil, spoil, toil, coin, join, void, and avoid.

Unit 1: Lesson 3

Words with long 'o' Vowel Sound

o in nose

Also: hose, pose, and rose.

Other spellings also make a long 'o' sound: grows, rows, flows, blows, and clothes.

Words with 'ou' Vowel Sound

ou in sour

Also: cloud, loud, proud, our, flour, and hour.

Other spellings also make a 'ou' sound: cow, how, now, flower, power, tower, and shower.

Words with the Long 'e' Vowel Sound**ee** in **sweet**

Also: steel, beep, deep, sleep, steep, beet, feet, meet, sheet, tweet, seen, and teen.

Other spellings also make a 'ee' sound: read, steal, cream, scream, team, lean, mean, beat, feat, meat, seal, and seat.

Unit 1: Lesson 4**Words with a double t****tt** in **bitter**

Also: bitten, brittle, kitten, mittens, critter, hitter, litter, quitter, and baby-sitter.

Unit 1: Lesson 5**Words with the Short 'u' Sound****ou** in **touch** and **rough**

Also: tough, and enough.

Unit 2: Lesson 1**Words with a Double Consonant make the Short 'a' Sound****matter** and **mass**

Also: ladder, madder, batter, fatter, platter, natter, splatter, pass, class, bypass, glass, and grass.

Other short vowels followed by double consonants: letter, better, bedding, hitter, middle, butter, sudden, cotton, and rotten.

Words with the Long 'a' Sound**ei** in **weigh**

Similar words: neighbor, freight, and sleigh.

Words with the Short 'e' Sound**ea** in **measure**

Also: pleasure, treasure, read, and lead, but also red and led.

Unit 2: Lesson 2**Words with a Double 'rr'****furry**

Also: blurry, curry, flurry, hurry, purr, and scurry.

Double **rr** and vowel **o** to make **or** and sometimes **er** sounds: borrow, sorrow, sorry, tomorrow, but worry.**Words with the Long 'a' Sound****ea** in **weigh**

Similar words: neigh and sleigh.

Words with the Short 'e' Sound**ea** in **measure**

Also: pleasure and treasure.

Unit 2: Lesson 3

Words with the 'kw' Sound

liquid

Also: squid, quick, quiet, quaint, question, queen, earthquake, and equation.

Sounds of Words with 'ou'

ow sound: ounce, bounce, pounce, cloud, loud, proud, flour, hour, our, sour, scour, shout, about, doubt, pout, hound, rebound, sound, house, and mouse.

or sound: pour and four.

oo sound: tour.

Unit 2: Lesson 4

Words with 'eous'

gaseous

Also: courageous, outrageous, hideous, and gorgeous.

Unit 2: Lesson 5

Words with the Long 'e' Sound

ea in heat and ee in freeze

Also: meat, neat, feat, treat, seat, sweet, sweep, meet, feet, and beet.

Words with the Long 'u' Sound

oo in cool

Similar words: pool, fool, school, drool, and tool.

Words with the 'oy' Sound

oi in point

Also: appoint, joint, oil, foil, and spoil.

Unit 2: Lesson 6

Words with the 'oy' Sound

oi in boil

Also: oil, foil, spoil, point, soil, joint, join, coin, coil, and oink.

Unit 3: Lesson 1

Words with the 's' Sound

c in ice

Also: dice, mice, nice, price, rice, spice, and twice.

disgrace, embrace, grace, pace, race, space, and trace.

Bruce, spruce, and truce.

secede, niece, piece, peace, and juice.

Unit 3: Lesson 2**Words with 'ss'****ss** in **dissolve****z** sound: dissolve, and dessert**s** sound: address, dress, guess, hassle, and mess**sh** sound: mission, missionary, and session**Unit 4: Lesson 1****Words Ending in 'tion' Sounding Like 'shun'****tion** in **motion** and **position**

Also: creation, emotion, nation, imagination, vibration, investigation, relation, relationship, temptation, and vacation.

Words with a Double 'ee'**ee** in **speed**

Also: bleed, feed, greed, need, seed, seem, green, keen, queen, see, sheen, teen, beep, creep, deep, jeep, peep, sleep, beet, greet, and meet.

Unit 4: Lesson 2**Words with the Long 'o' Sound****oll**: roll, scroll, and toll (but: doll).**ole**: dole, hole, mole, pole, sole, and stole.**owl**: bowl (but: fowl, owl, and scowl).**Words with 'ull'****uh** sound: bull, bulletin, full, and pull.**short u** sound: dull, gull, gullet, hull, lull, mullet, and skull.**Unit 4: Lesson 3****The Sounds of Words with 'ow'****long o** sound: bow, blow, flow, glow, grow, low, mow, row, slow, stow, tow, and own.**ow** sound: brown, clown, crown, down, gown, town, bow, cow, how, now, and wow.**Unit 5: Lesson 1****Words with 'c' with an 's' sound**

cent, center, circus, scent, bicycle, pencil, and cancel.

Words with 'ph' and an 'f' sound

phantom, phony, photograph, Philadelphia, sphere, telephone, and autograph.

Unit 5: Lesson 2**Words spelled with 'tt'**

battle, cattle, rattle, tattle

bottle, throttle
brittle, little, spittle
attack, attend, attention, attract, attraction, bitter, critter, hitter, litter, quitter, baby-sitter batter, fatter,
matter, bottom, mittens, rotten

Unit 5: Lesson 3

Words containing 'ff'

taffy, fluffy, puffy, afford, affection, effort, and effect.

Words containing 'ss'

boss, bass, cuss, fuss, loss, mass, mess, miss, moss, pass, toss, address, dress, grass, guess,
discuss, hassle, and tussle.