# very short introduction philosophy science Printable PDF

**Very short introduction philosophy science**

Philosophy and science are two fundamental domains that have shaped human understanding of the universe, existence, and knowledge itself. While they often operate independently, their intersection offers profound insights into the nature of reality, the limits of human comprehension, and the methods by which we seek truth. This brief yet comprehensive overview aims to introduce the core concepts of philosophy of science, highlighting its significance and foundational ideas. Whether you're a curious learner or a student exploring these fields, understanding their relationship is essential for grasping how we interpret the world around us.

## What Is Philosophy of Science?

The philosophy of science is a branch of philosophy that examines the assumptions, foundations, and implications of science. It explores how scientific knowledge is generated, validated, and understood, as well as the broader questions surrounding scientific inquiry.

### Definition and Scope

The philosophy of science investigates questions such as:

- What distinguishes science from non-science?
- How do scientific theories develop and change over time?
- What is the nature of scientific explanation?
- What are the ethical implications of scientific research?

This field addresses both the epistemological aspects?how knowledge is acquired?and the metaphysical aspects?what kinds of things exist according to scientific understanding.

### Historical Development

Understanding the evolution of scientific philosophy provides insight into how modern science has been shaped:

- **Ancient Philosophy:** Early thinkers like Aristotle laid the groundwork for systematic inquiry into nature.
- **Scientific Revolution:** Figures such as Copernicus, Galileo, and Newton challenged existing views, emphasizing empirical evidence and mathematical descriptions.
- **19th and 20th Centuries:** Philosophers like Kant, Hume, Popper, and Kuhn scrutinized the scientific method, theory change, and paradigm shifts.

## Core Concepts in Philosophy of Science

A foundational understanding of key ideas helps clarify how science works and its philosophical challenges.

### Empiricism and Rationalism

These are two primary epistemological approaches:

- **Empiricism:** Knowledge arises from sensory experience and observation.
- **Rationalism:** Reason and logical deduction are primary sources of knowledge.

Modern science predominantly relies on empiricism, emphasizing evidence-based inquiry.

### The Scientific Method

The process by which science advances typically involves:

- Observation of phenomena
- Formulation of hypotheses
- Testing hypotheses through experiments
- Refining theories based on empirical data

Philosophy critically examines the robustness and limitations of this method.

### Falsifiability and Scientific Theories

Karl Popper introduced the idea that:

- For a theory to be scientific, it must be falsifiable?able to be proven false through evidence.
- This criterion distinguishes scientific theories from pseudoscience.

### Paradigms and Scientific Revolutions

Thomas Kuhn's concept of paradigm shifts describes how:

- Normal science operates within prevailing frameworks.
- Crises lead to revolutionary changes and new paradigms, transforming scientific understanding.

## Philosophical Questions and Debates in Science

The philosophy of science raises profound questions:

- What is the nature of scientific explanation?
- Are scientific theories true or merely useful models?
- How do values influence scientific research?
- Can science provide ultimate answers about reality?

Some key debates include:

- **Realism vs. Anti-Realism:** Do scientific theories truly describe reality, or are they merely instruments?
- **Determinism vs. Indeterminism:** Is the universe governed by strict causal laws?
- **Reductionism vs. Holism:** Can complex phenomena be fully explained by their parts?

## Intersections of Philosophy and Science

Philosophy influences science in numerous ways:

- Shaping scientific methodology
- Clarifying concepts and assumptions
- Addressing ethical issues in research

Similarly, scientific discoveries often challenge philosophical perspectives:

- Quantum mechanics raises questions about determinism and causality.
- Evolutionary biology impacts metaphysical debates about purpose and design.

## Why Is Philosophy of Science Important?

Understanding the philosophy of science is crucial for several reasons:

- **Critical Thinking:** It encourages rigorous analysis of scientific claims and methods.
- **Conceptual Clarity:** It helps clarify ambiguous or complex scientific concepts.
- **Ethical Awareness:** It informs responsible research practices.
- **Interdisciplinary Insights:** It fosters dialogue between science, ethics, and other fields.

This awareness can lead to more reflective and responsible scientific practices.

## Conclusion

In sum, the philosophy of science offers a vital lens through which to examine the foundations, methods, and implications of scientific inquiry. It challenges scientists and thinkers alike to reflect on how knowledge is constructed, validated, and applied. By engaging with these philosophical questions, we deepen our understanding of the universe and our place within it, fostering a more thoughtful approach to scientific progress and its role in society. Whether considering the nature of scientific truth, the process of discovery, or the ethical dimensions of research, philosophy enriches our appreciation of science's power and limitations.

This very short introduction to philosophy science aims to serve as a stepping stone for further exploration into these fascinating and complex fields, encouraging curiosity and critical engagement with the pursuit of knowledge.

Very short introduction philosophy science

Philosophy and science are two fundamental pursuits that have shaped human understanding of the world for millennia. While often portrayed as separate domains?one rooted in abstract thinking, the other in empirical investigation?they are deeply interconnected, each informing and enriching the other. This interplay has led to profound insights about reality, knowledge, and the nature of existence itself. In this article, we explore the core principles of philosophy and science, how they intersect, and why their relationship remains vital in the quest for understanding.

The Origins and Foundations of Philosophy and Science

Philosophy: The Search for Fundamental Truths

Philosophy, derived from the Greek words philos (love) and sophia (wisdom), is the pursuit of fundamental questions about existence, knowledge, values, reason, mind, and language. Its origins

date back to ancient civilizations?Greece, India, China?where thinkers like Socrates, Confucius, and Buddha sought to understand the nature of reality and how humans should live.

Philosophy is characterized by:

- Critical thinking: Analyzing assumptions, arguments, and beliefs.
- Logical reasoning: Constructing coherent arguments.
- Speculative inquiry: Asking "why" and "what if" beyond immediate empirical evidence.

While it doesn't rely solely on experiments, philosophy often sets the stage for scientific inquiry by clarifying concepts, questioning assumptions, and exploring ethical implications.

Science: Empirical Investigation and Testable Hypotheses

Science, from the Latin scientia meaning "knowledge," emerged as a systematic way to understand the natural world through observation, experimentation, and evidence-based reasoning. Its roots lie in the Renaissance and Enlightenment periods, where figures like Galileo Galilei and Isaac Newton revolutionized understanding by applying mathematical models and empirical methods.

Core features of science include:

- Empiricism: Reliance on sensory data and experiments.
- Falsifiability: Theories must be testable and potentially refutable.
- Reproducibility: Independent confirmation of results.

Science has led to technological advances, medical breakthroughs, and a detailed understanding of phenomena from atomic particles to cosmic structures.

The Interplay Between Philosophy and Science

Philosophy as the Foundation of Scientific Inquiry

Science?s roots are philosophical. Early scientists were often philosophers, asking questions about nature and seeking explanations based on reason. For example:

- The concept of causality, fundamental to science, originated in philosophical debates.
- The scientific method itself was shaped by philosophical principles of skepticism and rational inquiry.

Philosophy helps clarify what counts as scientific evidence, addresses questions about scientific realism, and examines the ethical implications of scientific advances.

Scientific Discoveries Informing Philosophical Thought

Conversely, scientific discoveries challenge and refine philosophical ideas. For instance:

- Einstein?s theory of relativity prompted philosophers to reconsider notions of space and time.
- Quantum mechanics raised questions about determinism, reality, and the role of observation.

The dialogue between science and philosophy creates a dynamic feedback loop, refining our understanding of both the physical universe and our conceptual frameworks.

Major Philosophical Questions Addressed by Science

What is Reality?

Science seeks to uncover the fundamental nature of reality, asking questions such as:

- What are the building blocks of matter?
- How did the universe originate?
- What is the nature of consciousness?

Philosophy, in turn, examines the ontological assumptions underlying scientific theories, debating whether scientific models truly describe reality or are simply useful instruments.

How Do We Know What We Know? (Epistemology)

Science relies on empirical evidence, but questions about the nature, limits, and justification of knowledge are philosophical in origin. Key issues include:

- The problem of induction: Can we justify generalizations based on finite observations?
- Scientific realism vs. anti-realism: Do scientific theories depict true aspects of reality or are they just useful models?
- The role of perception and cognition in forming scientific knowledge.

Ethical and Moral Implications of Scientific Progress

Advances in genetics, artificial intelligence, and biotechnology raise ethical questions about:

- Human enhancement
- Privacy and surveillance
- Responsibility for ecological impacts

Philosophy provides ethical frameworks?deontology, utilitarianism, virtue ethics?to navigate these dilemmas.

The Impact of Philosophical Thinking on Scientific Practice

Conceptual Clarification

Philosophy aids scientists by clarifying concepts and terminology, ensuring precise communication. For example:

- The concept of "mass" has evolved through philosophical and scientific analysis.
- Understanding the nature of "time" has driven both philosophical debates and physical theories.

Methodological Reflection

Philosophical scrutiny of scientific methods encourages rigorous standards, transparency, and awareness of biases. Philosophers like Karl Popper emphasized falsifiability as a demarcation criterion for science.

Ethical Oversight

Philosophy guides the ethical conduct of research, from human experimentation to environmental policies.

Contemporary Challenges at the Intersection

The Demarcation Problem

One ongoing debate concerns what separates science from non-science or pseudoscience. Philosophers examine criteria like testability, evidence, and explanatory power to delineate credible scientific theories.

The Philosophy of Artificial Intelligence

As AI advances, questions arise about consciousness, free will, and moral responsibility. Philosophical inquiry addresses:

- Can machines truly think?
- What are the ethical implications of autonomous systems?

The Nature of Consciousness

Understanding consciousness remains a central challenge, bridging neuroscience, philosophy, and cognitive science. Philosophers debate whether consciousness is reducible to physical processes or if it requires a new paradigm.

Why the Relationship Between Philosophy and Science Matters Today

Despite their differences, philosophy and science are mutually enriching disciplines. Recognizing their interconnectedness enhances scientific literacy, fosters ethical responsibility, and promotes a more profound understanding of our universe.

In an era marked by rapid technological change and complex global challenges, the dialogue between philosophy and science is more vital than ever. It helps us navigate uncertainties, question assumptions, and develop a nuanced perspective on what it means to know and to exist.

Conclusion

Very short introduction philosophy science encapsulates a centuries-old dialogue that continues to shape human understanding. Philosophy provides the conceptual tools, ethical frameworks, and critical perspectives that underpin scientific investigation. Conversely, science offers empirical insights that challenge and refine philosophical ideas. Together, they form a comprehensive approach to exploring the mysteries of existence, knowledge, and morality.

As we move forward into an increasingly complex world, fostering this interdisciplinary relationship remains essential. It encourages curiosity, critical thinking, and ethical responsibility?qualities that are indispensable for addressing the profound questions that define our shared human journey.

QuestionAnswer What is the purpose of a very short introduction to philosophy and science? It aims to provide a concise overview of fundamental concepts, key debates, and the relationship between philosophy and science for newcomers or those seeking a quick yet comprehensive understanding. How does philosophy contribute to scientific understanding? Philosophy helps clarify scientific assumptions, interpret findings, explore ethical implications, and address foundational questions about the nature of knowledge and reality that underpin scientific inquiry. What are some

common themes covered in a brief introduction to philosophy and science? Themes often include the nature of scientific explanation, the scientific method, the relationship between science and metaphysics, ethics in scientific practice, and the evolution of scientific ideas over time. Why is it important to study both philosophy and science together? Studying both disciplines together fosters critical thinking, helps understand the philosophical foundations of scientific methods, and encourages a more holistic view of how we seek and interpret knowledge. Who are some influential thinkers discussed in short guides on philosophy and science? Key figures often include Aristotle, Descartes, Kant, Darwin, Einstein, and contemporary philosophers of science like Karl Popper and Thomas Kuhn, who have shaped our understanding of science and philosophy. Can a very short introduction to philosophy and science be useful for advanced students? Yes, it provides a quick refresher, highlights key ideas, and offers a broad overview that can complement more detailed studies, making complex topics more accessible for advanced learners.

**Related keywords:** philosophy, science, introduction, brief, overview, fundamentals, concepts, philosophy of science, scientific methods, epistemology

## short vowel digraph word list

**short vowel digraph word list**

Understanding the fundamentals of English phonics is essential for early learners, teachers, and parents aiming to improve reading and spelling skills. One of the key components in phonics instruction involves mastering short vowel sounds and their corresponding digraphs. A short vowel digraph word list serves as a valuable resource for learners to recognize, pronounce, and spell words containing these sounds. This comprehensive guide explores the concept of short vowel digraphs, provides extensive word lists, and offers practical tips for teaching and learning.

## What Are Short Vowel Digraphs?

### Definition of Short Vowel Digraphs

A short vowel digraph consists of two vowels that together produce a single short vowel sound within a syllable. Unlike long vowel sounds, which sound like the name of the letter, short vowel sounds are quick and abrupt. These digraphs are fundamental in phonics instruction because they help learners decode words more effectively.

### Common Short Vowel Digraphs in English

The five primary short vowel digraphs include:

- ai ? as in rain (although 'ai' can sometimes be long, in some words it is short, but predominantly it?s a long sound. For short vowel sounds, focus on other digraphs).
- ea ? as in head (short e) and bread.
- oo ? as in book and good.
- ou ? as in shout (short ou).
- oi ? as in coin (though 'oi' often makes a diphthong, in some words it has a short sound).

However, for pure short vowel sounds, the most relevant digraphs are those producing short a, e, i, o, and u sounds.

## Short Vowel Sounds and Corresponding Digraphs

### Short A

The short a sound is found in many common words and can be represented by the following digraphs:

- ca ? as in cat, cab, cap
- ba ? as in bat, bag, cap
- fa ? as in fan, fad, map
- ma ? as in mat, man, map
- sa ? as in sat, sad, sand

Note: While 'ca', 'ba', 'fa', 'ma', and 'sa' are not always digraphs for the short a sound, they often appear in words containing the short a. The most common short a words are often just the single vowel 'a' with consonants.

### Short E

- et ? as in bed, set, get
- en ? as in pen, den, men
- ed ? as in red, bed, fed
- em ? as in them, gem
- ep ? as in pep (less common)

### Short I

- it ? as in sit, bit, fit
- id ? as in did, kid
- ip ? as in lip, zip
- im ? as in him, rim
- in ? as in pin, win, sin

### Short O

- op ? as in top, pop, hop
- ot ? as in hot, pot, not
- ob ? as in bob, job
- om ? as in mom, comb
- od ? as in god, rod

### Short U

- ut ? as in cut, nut
- ub ? as in cub, rub
- up ? as in cup, sup
- un ? as in sun, fun, run
- ud ? less common, but appears in words like bud

## Extensive Short Vowel Digraph Word Lists

To aid in learning, below are categorized lists of words containing short vowel digraphs. These lists serve as practice material for decoding and spelling.

### Short A Word List

- cat
- cap
- bag
- mad
- sat
- map
- fan
- lap
- sad

- rat
- tan
- hat
- cab
- jam
- pan
- mat
- tag
- van
- can
- nap

## Short E Word List

- bed
- red
- pen
- bet
- fed
- men
- set
- leg
- wet
- net
- jet
- led
- peg
- hen
- web
- den
- fed
- gem
- men

## Short I Word List

- sit
- lip
- pin

- pig
- kid
- rim
- win
- fin
- bit
- hit
- fig
- him
- dip
- tin
- zig
- fig
- rib
- sis
- zip

## Short O Word List

- top
- pot
- hop
- dog
- box
- dot
- cot
- log
- fog
- jog
- mug
- bug
- lot
- sob
- rod
- got
- plop
- rot
- pop
- rock

### Short U Word List

- cut
- sun
- mug
- bug
- nut
- cup
- run
- fun
- mud
- bus
- tub
- rug
- hum
- gum
- sub
- bud
- dud
- up
- us

## Teaching Strategies for Short Vowel Digraphs

### Phonics Instruction

- Use visual aids like flashcards showing words and pictures.
- Incorporate phonics games that emphasize short vowel sounds.
- Practice blending consonants with short vowels to form words.

### Word Recognition and Spelling

- Encourage learners to identify short vowel sounds in spoken words.
- Practice spelling words from the short vowel digraph list.
- Use word building activities with letter tiles or magnetic letters.

### Reading Practice

- Select age-appropriate books containing high frequency short vowel words.
- Read aloud sessions focusing on pronunciation.
- Use repetitive texts to reinforce recognition.

### Interactive Activities

- Vowel sound sorting games.
- Fill-in-the-blank exercises.
- Writing short sentences using words from the list.

## Importance of Short Vowel Digraphs in Reading Development

Mastering short vowel digraphs is crucial for developing strong decoding skills. These phonics patterns form the foundation of many common words, enabling early readers to recognize and read with confidence. An understanding of short vowel sounds enhances spelling accuracy and vocabulary growth.

By regularly practicing with a short vowel digraph word list, learners improve their phonemic awareness, which is essential for fluent reading. Teachers and parents should incorporate diverse activities to make learning engaging and effective.

## Resources for Short Vowel Digraph Learning

- Printable Word Lists: Downloadable PDFs for practice at home or in classrooms.
- Educational Games: Online and offline games focusing on short vowel sounds.
- Phonics Apps: Interactive apps that reinforce short vowel digraph recognition.
- Flashcards: Visual aids for quick recall and reinforcement.
- Worksheets: Exercises for decoding, spelling, and sentence building.

## Conclusion

A comprehensive understanding of the short vowel digraph word list is essential for early literacy development. Recognizing and practicing words containing short vowel sounds build phonemic awareness, decoding skills, and confidence in reading. Whether through games, worksheets, or reading activities, consistent exposure to these word patterns accelerates learning and lays a solid foundation for advanced literacy skills.

Incorporate the lists and strategies provided here into daily teaching routines to foster a fun, engaging, and effective phonics learning environment. Remember, mastery of short vowel digraphs

opens the door to a world of reading adventures and lifelong learning.

Short vowel digraph word list: An Essential Guide for Early Readers and Educators

Understanding the short vowel digraph word list is fundamental for early literacy development. These word lists serve as building blocks for young learners beginning to decode and spell words. Short vowel digraphs?combinations of two vowels that produce a single short vowel sound?are common in the English language and play a crucial role in phonics instruction. This comprehensive guide explores what short vowel digraphs are, provides extensive examples, and offers practical tips for teaching and mastering these essential words.

What Are Short Vowel Digraphs?

Defining Digraphs

A digraph is a pair of letters that together produce a single sound. In the context of vowels, digraphs often influence the pronunciation of words and are integral to phonics instruction. Short vowel digraphs specifically involve two vowels that combine to create a short, quick vowel sound.

Short Vowel Sounds

The five short vowels in English are:

- a as in cat
- e as in bed
- i as in sit
- o as in dog
- u as in cup

Short Vowel Digraphs

Short vowel digraphs are pairs of vowels that combine to produce a short vowel sound. Unlike long vowel sounds, which say their name, short vowel sounds are quick and clipped. Examples include:

- ai (as in rain) ? but note that rain is a diphthong, so not part of the short vowel digraphs
- ea (as in bread) ? here, the ea produces the short e sound
- ee (as in see) ? typically a long e, but in some contexts, it acts as a short vowel sound
- oa (as in boat) ? usually a long o, so not a short vowel digraph
- oo (as in book) ? can be long or short; oo in book is short

- au (as in audience) ? generally a short a sound in some words
- aw (as in saw) ? often a short a sound
- ai and ay are often long sounds; in the short vowel digraph list, focus is on ea, ee, oo (short), au, aw, etc.

Note: For the purpose of a short vowel digraph word list, the focus is on those pairs that produce a short vowel sound, such as ea in bread, ee in see, oo in look, aw in saw, and au in pause (depending on dialect).

The Most Common Short Vowel Digraphs and Their Word Lists

- ea ? Short e Sound

Examples:

- bread
- head
- dead
- said
- friend

Usage Tips:

- The ea digraph often produces the short e sound in words where the e is in a closed syllable.
- Be aware that ea can also produce long e sounds, as in team, so context matters.

- ee ? Short e Sound

Examples:

- see
- feet
- been
- speed
- feel

Usage Tips:

- The ee digraph usually makes a long e sound, but in some words like been, the pronunciation may differ by dialect.
- Focus on words where ee appears in a closed syllable to reinforce short e sounds.

- oo ? Short u or oo Sound

Examples:

- book
- good
- look
- foot
- stood

Usage Tips:

- The oo digraph commonly produces a short u sound in words like book and look.
- It can also produce a long oo sound, as in moon, so context is key when teaching.

- aw ? Short a Sound

Examples:

- saw
- paw
- claw
- straw
- yawn

Usage Tips:

- The aw digraph often appears at the end of words or syllables.

- It typically produces a short a sound, especially in closed syllable words.

- au ? Short o or aw Sound

Examples:

- pause (pronounced /paws/)
- authors (in some dialects)
- haul

Usage Tips:

- The au digraph is less common in short vowel words but appears in some words borrowed from other languages.

Additional Short Vowel Digraphs in Common Use

While the core list above covers most short vowel digraphs, some less common or dialect-specific digraphs include:

- ow ? as in cow or brown (short ow sound)
- oi ? as in boil (though often a diphthong)
- oy ? as in boy (typically a long o sound)

Note: For a focused short vowel digraph word list, emphasis is placed on ea, ee, oo (short), aw, and au.

Teaching Strategies for Short Vowel Digraphs

Phonics Instruction and Word Lists

- Use visual aids and flashcards featuring short vowel digraphs.
- Incorporate multisensory activities like writing the words, saying them aloud, and sorting them into categories.
- Practice with both isolated words and sentences to reinforce understanding.

Engaging Activities

- Word Sorting: Group words based on their digraphs.
- Matching Games: Match words with their corresponding images.
- Fill-in-the-Blank: Complete sentences with missing short vowel digraph words.
- Read-Alouds: Encourage students to read short vowel digraph words in context.

Common Pitfalls and How to Address Them

- Confusing short and long vowel sounds in digraphs.
- Overgeneralizing rules; remember some digraphs produce different sounds depending on the word.
- Encouraging students to pay attention to context for pronunciation clues.

Sample Short Vowel Digraph Word List for Practice

Here is an extensive list of words categorized by short vowel digraphs to aid teaching and review:

ea

- bread
- head
- dead
- said
- friend
- meat (context-dependent)
- read (past tense)

ee

- see
- feet
- been
- feel
- sleep
- deep
- need

oo (short)

- book
- look
- good
- foot
- stood
- hook
- crook

aw

- saw
- paw
- claw
- straw
- yawn
- crawl

au

- pause
- fault
- haul
- author (variant pronunciation)

Conclusion: The Significance of Mastering Short Vowel Digraphs

A carefully curated short vowel digraph word list is instrumental in laying the foundation for phonemic awareness and decoding skills in early learners. Recognizing these common digraphs and their associated words empowers students to approach reading with confidence, fostering fluency and comprehension.

Educators and parents can leverage this knowledge by integrating engaging activities, contextual reading, and explicit instruction focused on these patterns. As students become familiar with short vowel digraphs, they gain the tools necessary for tackling more complex words and developing a lifelong love for reading.

By systematically exploring short vowel digraphs and their corresponding words, learners develop essential phonics skills that serve as the cornerstone of effective literacy education.

QuestionAnswer What is a short vowel digraph? A short vowel digraph is a pair of vowels that together produce a short vowel sound, such as 'ea' in 'bed' or 'oo' in 'book'. Can you give examples of common short vowel digraph words? Yes, examples include 'cat', 'bed', 'sit', 'hot', 'cup', 'fish', 'bus', 'egg', 'zip', and 'mud'. Why are short vowel digraphs important for early reading? They help children recognize and decode common patterns in words, improving reading fluency and comprehension. How can I teach short vowel digraphs to young learners? Use word lists, flashcards, phonics games, and reading activities that focus on identifying and practicing these digraphs in words. What is the difference between a short vowel digraph and a long vowel digraph? A short vowel digraph produces a short vowel sound (e.g., 'ea' in 'bread'), while a long vowel digraph produces a long vowel sound (e.g., 'ea' in 'read'). Are there any common rules for spelling short vowel digraphs? Yes, often short vowel digraphs appear in closed syllables where a consonant follows the digraph, such as 'hat', 'pen', or 'sit'. How can I create a word list for short vowel digraphs? Identify common digraphs like 'ea', 'oo', 'ai', 'ay', 'ou', etc., and list words that contain these patterns with short vowel sounds. Are short vowel digraphs used in multisyllabic words? Typically, short vowel digraphs are found in simple, one-syllable words, but they can appear in multisyllabic words as part of larger syllables. What are some fun activities to reinforce short vowel digraphs? Activities include matching games, sorting words by digraphs, creating word puzzles, and using song or chant to memorize common digraphs. How do short vowel digraphs help improve spelling skills? Recognizing digraphs helps students spell words correctly by understanding common letter combinations that produce specific sounds.

**Related keywords:** short vowels, vowel digraphs, word list, phonics, spelling, vowel combinations, early reading, teaching resources, phonics words, vowel pairs

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