

Pogil Molecular Geometry

Pogil molecular geometry is a fundamental concept in chemistry that helps students and professionals understand the three-dimensional arrangement of atoms within a molecule. Mastering molecular geometry is essential for predicting molecular behavior, reactivity, polarity, and physical properties. This article provides a comprehensive overview of Pogil molecular geometry, including its principles, methods of determination, and applications in real-world chemistry.

Understanding Molecular Geometry

What Is Molecular Geometry?

Molecular geometry refers to the spatial arrangement of atoms in a molecule. It describes how atoms are positioned relative to each other, influencing the molecule's shape and overall properties. The geometry is determined by the number of bonding pairs and lone pairs of electrons around the central atom.

Why Is Molecular Geometry Important?

The shape of a molecule affects: - Polarity and dipole moments - Intermolecular forces - Physical states (solid, liquid, gas) - Chemical reactivity and mechanisms - Biological activity in pharmaceuticals
Understanding molecular geometry enables chemists to predict and explain these properties accurately.

Fundamentals of Pogil Approach to Molecular Geometry

What Is Pogil?

Pogil (Process Oriented Guided Inquiry Learning) is an instructional strategy emphasizing student-centered learning through guided inquiry. In chemistry, Pogil activities help students explore concepts like molecular geometry by engaging in hands-on, collaborative problem-solving.

Applying Pogil to Molecular Geometry

Pogil activities typically involve: - Analyzing molecular structures - Drawing Lewis structures - Determining electron pair arrangements - Predicting molecular shapes based on VSEPR theory - Interpreting real-world examples
This approach encourages critical thinking and deep understanding of molecular geometry concepts.

VSEPR Theory: The Foundation of Molecular Geometry

What Is VSEPR?

VSEPR (Valence Shell Electron Pair Repulsion) theory states that electron pairs around a central atom

will arrange themselves to minimize repulsion, thus determining the molecule's shape.

Steps to Predict Molecular Geometry Using VSEPR

1. Draw the Lewis structure of the molecule.
2. Count the total number of bonding and lone pairs on the central atom.
3. Determine the electron pair geometry based on the total electron pairs.
4. Identify the molecular shape by considering only the positions of the atoms (bonding pairs).
5. Account for lone pairs that may influence the shape.

Common Molecular Geometries and Their Characteristics

Based on Electron Pair and Molecular Geometries

The molecular shape depends on the number of electron pairs around the central atom. Here are some common geometries:

Linear

1. Electron pairs: 2 (bonding or lone pairs)
2. Bond angles: 180°
3. Example: CO_2

Trigonal Planar

1. Electron pairs: 3 bonding pairs
2. Bond angles: 120°
3. Example: BF_3

Tetrahedral

1. Electron pairs: 4 bonding pairs
2. Bond angles: 109.5°
3. Example: CH_4

Trigonal Pyramidal

1. Electron pairs: 3 bonding pairs + 1 lone pair
2. Bond angles: $<109.5^\circ$ (slightly less due to lone pair repulsion)
3. Example: NH_3

Bent (V-Shaped)

1. Electron pairs: 2 bonding pairs + 2 lone pairs
2. Bond angles: approximately 104.5°

3. Example: H₂O

Determining Molecular Geometry: Step-by-Step Guide

Step 1: Draw Lewis Structures

Begin by sketching the Lewis structure to identify bonding and lone pairs.

Step 2: Count Electron Pairs

Count the total number of electron pairs (bonding + lone pairs) around the central atom.

Step 3: Predict Electron Pair Geometry

Use VSEPR to determine the arrangement of electron pairs.

Step 4: Determine Molecular Shape

Focus on the positions of atoms (excluding lone pairs) to identify the molecular geometry.

Step 5: Consider Lone Pair Effects

Lone pairs can influence bond angles and overall shape, making molecules slightly distorted.

Applications of Pogil Molecular Geometry in Chemistry

Predicting Polarity

The molecular shape determines whether a molecule is polar or nonpolar. For example: - Symmetrical shapes like tetrahedral often lead to nonpolar molecules if identical atoms are involved. - Asymmetrical shapes like bent or trigonal pyramidal typically produce polar molecules.

Understanding Physical Properties

Molecular geometry influences boiling and melting points, solubility, and intermolecular forces.

Explaining Chemical Reactivity

The shape of a molecule affects how it interacts with other molecules, impacting reaction mechanisms and pathways.

Designing Pharmaceuticals and Materials

Knowledge of molecular geometry guides the synthesis of drugs and new materials with desired properties.

Tools and Resources for Learning Pogil Molecular Geometry

Interactive Models

Physical or digital models help visualize 3D structures, making understanding easier.

Educational Software

Programs like Chem3D or MolView allow students to build and manipulate molecular structures.

Pogil Activities and Worksheets

Structured activities guide learners through the process of predicting and analyzing molecular geometries.

Tips for Mastering Pogil Molecular Geometry

1. Practice drawing Lewis structures regularly.
2. Memorize common electron pair and molecular geometries.
3. Use molecular model kits for hands-on learning.
4. Apply VSEPR principles systematically for each new molecule.
5. Relate molecular geometry to real-world examples to deepen understanding.

Conclusion

Understanding Pogil molecular geometry is a vital skill in chemistry that combines theoretical knowledge with practical application. By employing the Pogil methodology, students can develop a deeper understanding of the three-dimensional structures of molecules, their properties, and their behaviors. Mastery of molecular geometry not only enhances academic performance but also prepares learners for advanced studies and careers in chemistry, pharmaceuticals, materials science, and related fields. Whether you are a student exploring basic concepts or a professional applying molecular geometry in research, integrating Pogil strategies and VSEPR principles will empower you to analyze and predict molecular structures confidently. Embrace hands-on learning, practice regularly, and utilize available resources to become proficient in Pogil molecular geometry.

Pogil Molecular Geometry: An Expert Review of Its Teaching Efficacy and Educational Impact

Introduction

In the realm of chemistry education, understanding molecular geometry is fundamental to grasping the behavior, reactivity, and properties of molecules. Among various teaching approaches, the POGIL (Process-Oriented Guided Inquiry Learning) methodology has gained significant popularity for its student-centered, inquiry-based approach that fosters deep conceptual understanding. This review delves into the application of POGIL in teaching molecular geometry, analyzing its effectiveness,

pedagogical strategies, and how it enhances student comprehension compared to traditional methods.

What Is POGIL and Why Focus on Molecular Geometry?

The POGIL Approach Explained

POGIL stands for Process-Oriented Guided Inquiry Learning, a pedagogical strategy designed to engage students actively in their learning process. Instead of passive reception of information, students work collaboratively through carefully designed activities that promote critical thinking, conceptual understanding, and skills development.

Importance of Molecular Geometry in Chemistry

Molecular geometry refers to the three-dimensional arrangement of atoms within a molecule, which directly influences physical properties, reactivity, polarity, phase behavior, and biological activity. Mastery of molecular geometry concepts is essential for students to progress in organic, inorganic, and physical chemistry.

The Structure of POGIL Activities for Teaching Molecular Geometry

Components of a Typical POGIL Activity

A well-designed POGIL activity for molecular geometry typically includes:

1. Exploration: Students analyze models, data, or diagrams to identify patterns and relationships.
2. Concept Introduction: Guided questions lead students to articulate core principles.
3. Application: Students apply concepts to new situations or problems.
4. Reflection: Summarizing key learnings and addressing misconceptions.

Types of Activities Focused on Molecular Geometry

1. Model Building: Using molecular model kits to visualize different geometries such as linear, trigonal planar, tetrahedral, trigonal bipyramidal, and octahedral.
2. VSEPR-based Problem Sets: Applying the Valence Shell Electron Pair Repulsion (VSEPR) theory to predict and explain molecular shapes.
3. Electron Domain Analysis: Determining the number of bonding and lone pairs to establish the molecular geometry.
4. Comparative Exercises: Contrasting molecules with similar formulas but different geometries to understand the impact of lone pairs and multiple bonds.

Pedagogical Advantages of POGIL in Teaching Molecular Geometry

Active Learning and Student Engagement

Unlike traditional lecture-based teaching, POGIL activities compel students to participate actively. This engagement leads to:

1. Improved retention of concepts.
2. Development of critical thinking skills.

3. Enhanced collaboration and communication abilities.

Conceptual Understanding and Critical Thinking

Through guided inquiry, students move beyond memorization to genuinely understand the principles governing molecular shape. They learn to:

1. Recognize the influence of electron pairs.
2. Predict molecular geometry based on electron domain considerations.
3. Rationalize deviations from idealized structures.

Addressing Misconceptions

POGIL activities are designed to target common misconceptions, such as:

1. Confusing molecular shape with Lewis structures.
2. Misunderstanding the role of lone pairs in shaping molecules.
3. Overgeneralizing bond angles without considering lone pair effects.

By confronting these misconceptions directly, students develop a more nuanced understanding.

Effectiveness of POGIL in Teaching Molecular Geometry: Evidence and Outcomes

Empirical Studies and Student Performance

Research studies consistently indicate that students engaged in POGIL-based instruction outperform their traditionally taught peers in:

1. Conceptual assessments related to molecular shape.
2. Application of VSEPR theory to complex molecules.
3. Transfer of knowledge to real-world chemical problems.

Student Attitudes and Confidence

Students involved in POGIL activities tend to report:

1. Increased confidence in visualizing three-dimensional structures.
2. Greater enthusiasm for learning chemistry.
3. Improved collaborative skills.

Long-term Retention

The inquiry-based nature of POGIL fosters deeper understanding, which contributes to longer-lasting retention of molecular geometry concepts.

Practical Implementation: Tips for Educators

Designing Effective POGIL Activities

1. Align activities with learning objectives focused on molecular shapes and VSEPR theory.
2. Incorporate models and visual aids to facilitate spatial understanding.

3. Use scaffolding to gradually introduce complexity, starting with simple molecules and advancing to more complex structures.
4. Facilitate reflection to reinforce key concepts and address misconceptions.

Classroom Management and Collaboration

1. Encourage equal participation among students.
2. Promote respectful discussion and idea sharing.
3. Use peer teaching to reinforce learning.

Assessment Strategies

1. Use formative assessments during activities to gauge understanding.
2. Incorporate quizzes and concept maps post-activities.
3. Assign problem-solving tasks that require applying molecular geometry principles.

Comparing POGIL with Traditional Teaching Methods

Aspect	Traditional Lecture-Based Approach	POGIL Approach
Student Role	Passive listener	Active participant
Engagement	Often low	High through activities
Conceptual Understanding	Often superficial	Deep and retained
Misconception Addressing	Limited	Targeted and effective
Skill Development	Limited	Critical thinking, collaboration

Research suggests that POGIL not only improves comprehension but also fosters skills essential for scientific inquiry and problem-solving.

Challenges and Limitations of POGIL in Teaching Molecular Geometry

While POGIL offers numerous benefits, educators may face challenges such as:

1. Preparation Time: Developing quality activities requires significant upfront effort.
2. Classroom Dynamics: Managing group work and ensuring equitable participation can be complex.
3. Assessment Alignment: Standard assessments may need adaptation to reflect inquiry-based learning.
4. Resource Availability: Access to molecular model kits and visual tools is essential.

Despite these challenges, the pedagogical gains often justify the investment, especially when integrated thoughtfully into curricula.

Future Directions and Innovations

Emerging technologies and pedagogical strategies promise to enhance POGIL's effectiveness further:

1. Digital Simulations: Virtual models and interactive software for molecular visualization.

2. Adaptive Learning Platforms: Personalized activities based on student progress.
3. Interdisciplinary Integration: Connecting molecular geometry with spectroscopy, quantum chemistry, and biochemistry.

Continued research and development will likely expand POGIL's role in teaching molecular geometry and other fundamental chemistry concepts.

Conclusion

The application of Pogil molecular geometry activities represents a significant advancement in chemistry education. Its student-centered, inquiry-driven approach fosters not only a robust understanding of molecular shapes but also critical thinking, collaboration, and confidence among learners. As a pedagogical strategy, POGIL effectively addresses common misconceptions, promotes long-term retention, and prepares students for complex problem-solving in advanced studies and professional contexts.

For educators seeking to elevate their teaching methods, integrating POGIL activities focused on molecular geometry offers a proven pathway to deeper student engagement and mastery of this core chemistry concept. Embracing this approach can transform the learning experience from mere memorization to meaningful, inquiry-based discovery.

Discovering **Pogil Molecular Geometry** often begins with a need: a topic to understand, a problem to solve, or a skill to improve. What happens next depends on access. When information is available instantly, learning flows naturally instead of being delayed or abandoned.

Having **Pogil Molecular Geometry** available in PDF format creates a sense of readiness. The material is there when questions arise, when deadlines approach, or when curiosity strikes unexpectedly. This immediate availability removes friction and keeps momentum alive.

Readers no longer have to plan extensively just to begin. There is no waiting, no searching through physical shelves, and no concern about availability. With a few clicks, the content becomes part of the reader's environment, ready to be explored at their own pace.

Flexibility plays a central role in this experience. Whether opened on a laptop during focused study or on a mobile device during brief moments of reflection, the content adapts to the reader's routine. Learning becomes something that fits into life, not something that competes with it.

The structure of a well-prepared PDF supports clarity. Chapters are easy to navigate, sections remain consistent, and visual elements reinforce understanding. This stability is especially valuable for educational and professional materials where precision matters.

Interaction deepens engagement. Highlighting important ideas, adding personal notes, and bookmarking key sections allow readers to shape the material according to their goals. Over time, **Pogil Molecular Geometry** becomes more than a document; it turns into a personalized reference.

Efficiency matters in a world filled with distractions. Search tools allow readers to locate exact terms or concepts within seconds. This makes the book useful not only for reading from start to finish, but also for quick consultation whenever specific information is needed.

Accessing **Pogil Molecular Geometry** through trusted platforms ensures confidence. Legal sources protect both readers and creators, offering peace of mind alongside quality content. Knowing that the material is reliable allows full focus on comprehension rather than concern.

Affordability expands opportunity. When high-quality resources are available without excessive cost, readers feel encouraged to explore more freely. Learning becomes driven by interest rather than limitation.

Students benefit from this openness. Study sessions can happen anywhere, notes remain organized, and revision becomes less stressful. The ability to revisit content repeatedly supports long-term retention rather than short-term memorization.

For professionals, **Pogil Molecular Geometry** becomes a practical asset. It can be consulted during projects, referenced during decision-making, and revisited as experience grows. This ongoing usefulness transforms reading into a long-term investment.

Independent learners often value autonomy. Being able to choose when, how, and how deeply to engage with a subject strengthens motivation. Learning feels self-directed rather than imposed.

Accessibility features extend inclusion. Adjustable display settings and compatibility with assistive tools allow more readers to engage comfortably, reinforcing equal access to information.

Organization enhances continuity. Digital storage keeps the material safe, searchable, and easy to retrieve. Even after long breaks, readers can return without losing context or progress.

Global access creates shared understanding. Readers from different regions encounter the same material, often bringing unique perspectives that enrich interpretation. This shared access supports collaboration and collective growth.

Revisiting familiar sections often reveals new insights. As experience grows, the same content can feel different, more relevant, or more nuanced. This layered understanding is a sign of meaningful learning.

With **Pogil Molecular Geometry** always within reach, learning becomes less about completion and more about engagement. The material remains available whenever attention returns to it.

This availability supports calm, thoughtful exploration. There is no urgency to finish quickly. Progress happens naturally, guided by curiosity and purpose.

Rather than feeling like a one-time download, **Pogil Molecular Geometry** becomes a companion resource. It waits patiently, adapts to changing needs, and continues to offer value over time.

Choosing to access **Pogil Molecular Geometry** in this way reflects a commitment to growth, clarity, and informed decision-making. The journey does not end with the final page; it continues through reflection, application, and renewed understanding whenever the material is revisited.

Questions & Answers About pogil molecular geometry

No	Question	Answer
1	What is Pogil molecular geometry and why is it important?	Pogil molecular geometry refers to the three-dimensional arrangement of atoms in a molecule, which is crucial for understanding molecular properties, reactivity, and interactions. It helps predict how molecules behave in different chemical contexts.
2	How can I determine the molecular geometry using Pogil methods?	Using Pogil, you analyze the number of bonding pairs and lone pairs around the central atom, often through models or guided questions, to identify the molecular geometry such as linear, bent, trigonal planar, tetrahedral, etc.
3	What is the difference between molecular geometry and electron domain geometry in Pogil activities?	Electron domain geometry considers all regions of electron density (bonding pairs and lone pairs), while molecular geometry focuses only on the arrangement of atoms in space. Pogil activities help clarify this distinction through visual models.
4	Why are lone pairs important in determining molecular shape in Pogil exercises?	Lone pairs influence the shape of a molecule because they occupy space and repel bonding pairs, causing deviations from ideal bond angles and affecting the overall molecular geometry.
5	Can Pogil molecular geometry activities help me predict molecule polarity?	Yes, understanding molecular geometry through Pogil activities helps predict polarity by examining the symmetry of the molecule and the distribution of polar bonds, which influences whether the molecule is polar or nonpolar.
6	What tools or models are commonly used in Pogil activities to understand molecular geometry?	Pogil activities often involve molecular model kits, diagrams, and guided questions that facilitate visualization of different geometries and the effects of lone pairs and bond angles.
7	How does electron pair repulsion theory relate to Pogil molecular geometry?	Pogil activities incorporate VSEPR (Valence Shell Electron Pair Repulsion) theory, which states that electron pairs repel each other and arrange themselves to minimize repulsion, determining the molecular shape.
8	What are common molecular geometries I should learn through Pogil activities?	Common geometries include linear, trigonal planar, tetrahedral, trigonal bipyramidal, octahedral, bent, trigonal pyramidal, seesaw, T-shaped, and square pyramidal.

9	How can mastering Pogil molecular geometry improve my overall understanding of chemistry?	Mastering Pogil molecular geometry enhances your ability to predict chemical behavior, bonding, polarity, and reactivity, forming a strong foundation for advanced topics in chemistry.
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POGIL, molecular geometry, VSEPR, student activity, chemistry education, Lewis structures, molecular shape, bonding pairs, lone pairs, instructional strategy

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Digital books help readers maintain productivity.

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Organizing Pogil Molecular Geometry

Organizing Pogil Molecular Geometry in digital form is an essential step to ensure long-term usability, efficiency, and easy access. As your digital library grows, unorganized files can quickly become difficult to manage, leading to wasted time searching for documents and potential loss of important information. A well-structured organization system helps you maintain control over your collection and improves productivity.

One of the simplest and most effective methods of organization is using clearly labeled folders. Create a

main folder dedicated to Pogil Molecular Geometry and divide it into subfolders based on categories such as subject, author, year, edition, or format. For example, you might organize folders by topics, academic level, or personal vs professional use. Consistent folder structures make navigation intuitive and reduce confusion.

File naming conventions play a crucial role in organization. Instead of generic file names, use descriptive and consistent naming formats. Including details such as title, author, version, and date can make files easier to identify at a glance. For example, using a format like “Title_Author_Edition_Year.pdf” ensures clarity and avoids duplicate confusion. Consistency is key—choose a naming system and apply it uniformly across all Pogil Molecular Geometry files.

Tagging files is another powerful organizational strategy. Many operating systems and cloud storage platforms support file tags or labels. Tags allow you to categorize Pogil Molecular Geometry across multiple dimensions without duplicating files. For example, a single document can be tagged as “study,” “reference,” “important,” or “exam prep.” This makes retrieval faster when searching your library.

For collections involving multiple volumes or editions, version control is essential. Keeping track of revisions ensures that you always know which version is the most current or authoritative. You can use version numbers in file names or create a separate folder for archived editions. This practice is especially important for academic, technical, or professional Pogil Molecular Geometry materials that may be updated regularly.

Using cloud storage for organization

Cloud storage services such as Google Drive, Dropbox, and OneDrive offer advanced tools for organizing Pogil Molecular Geometry. These platforms allow folder hierarchies, tagging, search functionality, and cross-device access. Cloud storage also provides automatic backups, reducing the risk of data loss due to device failure.

Search functionality within cloud platforms is particularly valuable. Many services can search not only file names but also text within PDFs, making it easy to locate specific content inside Pogil Molecular Geometry documents. This feature saves significant time, especially when working with large libraries or research materials.

Sharing controls in cloud storage further enhance organization. You can manage access permissions, track shared links, and maintain privacy. This is useful when collaborating with others or distributing selected Pogil Molecular Geometry files while keeping the rest of your library private.

Offline Access

Offline access is one of the most important advantages of digital copies of Pogil Molecular Geometry. Downloading files for offline reading ensures uninterrupted access regardless of internet availability. This is especially useful during travel, commuting, or in locations with limited or unreliable connectivity.

Most eBook platforms and cloud storage services allow users to mark files for offline access. Once downloaded, Pogil Molecular Geometry can be read, annotated, and bookmarked without an active internet connection. Changes made offline are often synced automatically once the device reconnects to the internet, ensuring continuity across devices.

Syncing devices enhances the offline experience. When your devices are connected to the same account, progress, bookmarks, highlights, and notes can be synchronized seamlessly. This means you can start reading Pogil Molecular Geometry on one device and continue on another without losing your place. Synchronization is particularly valuable for users who switch between smartphones, tablets, and computers.

To optimize offline access, it is important to manage storage space effectively. Large PDF libraries can consume significant storage, especially on mobile devices. Regularly reviewing downloaded files and removing those no longer needed helps maintain sufficient space while keeping essential Pogil Molecular Geometry materials available offline.

Backup strategies for offline libraries

Even with offline access, backups remain essential. Maintaining copies of your Pogil Molecular Geometry library on external drives or secondary cloud accounts provides additional protection against data loss. Periodic backups ensure that your organized collection remains safe and recoverable in case of device failure or accidental deletion.

Interactive Elements

Some digital versions of Pogil Molecular Geometry go beyond static text by incorporating interactive elements designed to enhance engagement and retention. These features transform traditional reading into a more dynamic and immersive experience, particularly for educational and instructional content.

Interactive elements may include multimedia such as embedded audio, video explanations, animations, or hyperlinks to additional resources. These features provide context, demonstrations, and real-world examples that support deeper understanding. For learners, multimedia content can make complex topics easier to grasp and more memorable.

Quizzes and exercises are another common interactive feature. These elements allow readers to test their understanding of Pogil Molecular Geometry content immediately after reading. Interactive quizzes provide instant feedback, reinforcing learning and helping identify areas that need further review. This approach is especially effective for students, trainees, and self-learners.

Some interactive Pogil Molecular Geometry editions also include clickable tables of contents, internal navigation links, and progress indicators. These tools improve usability by allowing readers to move quickly between sections and track their progress. Enhanced navigation is particularly valuable for long or complex documents.

Device and platform compatibility

Interactive features may require specific apps or platforms to function properly. Not all PDF readers or eBook apps support advanced multimedia or interactive elements. Before downloading or purchasing an interactive version of Pogil Molecular Geometry, it is important to verify compatibility with your devices and preferred reading software.

Interactive content may also increase file size and resource usage. Devices with limited storage or processing power may experience slower performance. Understanding these requirements helps ensure a smooth reading experience without technical issues.

Balancing interactivity and focus

While interactive elements enhance engagement, moderation is important. Too many distractions can interrupt reading flow and reduce concentration. Choosing interactive Pogil Molecular Geometry editions that balance content and features ensures that interactivity supports learning rather than detracting from it.

Some readers prefer to disable certain interactive features or use simplified reading modes when focusing on deep study. The flexibility to customize the reading experience allows users to adapt Pogil Molecular Geometry to different contexts, such as quick review versus in-depth learning.

Best practices for managing interactive Pogil Molecular Geometry

- Keep interactive files organized separately if they require specific apps or platforms.
- Test interactive features before relying on them for study or teaching.
- Ensure offline availability if interactive content is needed without internet access.
- Maintain updated software to support multimedia and security features.
- Balance interactive use with focused reading sessions.

Long-term organization strategies

As your collection of Pogil Molecular Geometry grows, periodically reviewing and reorganizing your library helps maintain efficiency. Removing outdated files, updating versions, and refining folder structures keeps your system clean and functional. Long-term organization is not a one-time task but an ongoing process that evolves with your needs.

Final thoughts on organizing Pogil Molecular Geometry

Effective organization, reliable offline access, and thoughtful use of interactive elements significantly enhance the value of digital Pogil Molecular Geometry. By implementing structured folders, consistent naming, cloud synchronization, and backup strategies, users can maintain a clean and accessible library. Interactive features further enrich the reading experience when used appropriately. Together, these practices ensure that Pogil Molecular Geometry remains easy to manage, enjoyable to read, and highly effective as a long-term digital resource.