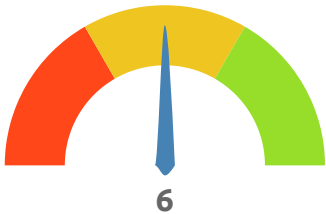


# Lesson Plan Summary

The lesson plan demonstrates a robust and structured approach to teaching wave physics, with significant strengths in conceptual clarity, learning progression, and metacognitive opportunities. The key strengths include a precise learning outcome that articulates clear cognitive goals, proactive identification of potential misconceptions, and a multi-modal learning approach that supports diverse learning needs. However, the lesson plan reveals critical weaknesses in SEND support, adaptive teaching strategies, and opportunities for student-led learning. The lack of explicit neuroaffirming approaches and personalized learning pathways significantly undermines the lesson's potential for inclusive and responsive education.



# Assessments

## Pupil-related differences

### Prior Knowledge

**Summary:**

The lesson demonstrates a methodical approach to prior knowledge assessment, with room for more nuanced implementation

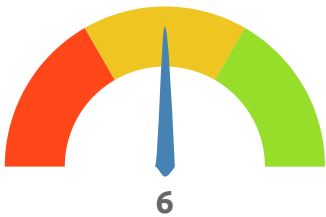
**Strengths:**

Comprehensive approach to assessing and acknowledging prior knowledge through a structured quiz

**Areas for Improvement:**

Need for more adaptive and personalized strategies for addressing prior knowledge variations

**Criteria:**



### Eliciting Prior Knowledge



**Overview:**

The lesson plan demonstrates a structured approach to eliciting prior knowledge through a targeted quiz, which effectively probes students' existing understanding of wave concepts.

**Strengths:**

- Includes a prior knowledge starter quiz with targeted questions about wave concepts - Quiz covers basic understanding of energy transfer, electromagnetic spectrum, and wave parameters

**Areas for Improvement:**

- Could include more interactive methods of eliciting prior knowledge - Might benefit from a pre-assessment dialogue to understand students' existing mental models

### Recognising Prior Knowledge



**Overview:**

The lesson plan shows clear recognition of the

**Strengths:**

- Explicitly lists suggested prior knowledge needed for

**Areas for Improvement:**

- Could include more adaptive strategies for

Foundational knowledge required, but could be more nuanced in addressing potential knowledge variations.

the lesson - Identifies key prerequisite concepts like basic energy transfer and electromagnetic spectrum understanding

students with varying levels of prior knowledge - Lacks explicit strategies for addressing gaps in prior knowledge

## Validating Prior Knowledge



### Overview:

The lesson plan includes a mechanism for validating prior knowledge, but lacks depth in providing constructive feedback.

### Strengths:

- Quiz provides immediate opportunity to validate students' existing understanding - Structured approach to checking baseline knowledge before introducing new concepts

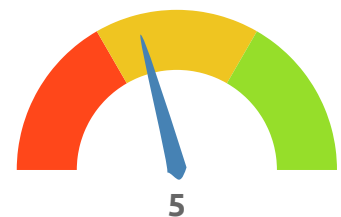
### Areas for Improvement:

- No explicit mechanism for providing feedback on the prior knowledge quiz - Could include more formative assessment strategies to validate understanding

## Personal relevancy

### Summary:

The lesson shows potential for personal relevancy, but requires more intentional design to fully engage students' personal experiences



### Strengths:

Attempts to create relevance through practical demonstrations and real-world connections

### Areas for Improvement:

Need for more personalized and socially contextual learning approaches

### Criteria:

## Personal Experiences



### Overview:

The lesson attempts to make wave concepts relatable through familiar physical demonstrations, but could go further in personalizing learning.

### Strengths:

- Uses visual examples like slinky and water waves to connect abstract concepts to tangible experiences - Suggests using sound waves and water waves to illustrate wave effects

### Areas for Improvement:

- Could include more diverse personal experience connections - Lacks explicit strategies for students to relate wave concepts to their lived experiences

## Social Capital



### Overview:

The lesson plan shows potential for social learning, but needs more intentional design to fully leverage students' social capital.

### Strengths:

- Collaborative learning suggested through group problem-solving activities -  
Uses multi-modal learning approaches that can support diverse learning needs

### Areas for Improvement:

- Limited explicit strategies for leveraging students' diverse social backgrounds -  
Could include more collaborative learning opportunities

## Personal Relevancy



### Overview:

The lesson attempts to make wave concepts relevant, but could more explicitly connect to students' personal contexts and futures.

### Strengths:

- Connects wave concepts to real-world phenomena like electromagnetic waves -  
Uses practical examples that demonstrate wave applications

### Areas for Improvement:

- Could include more contemporary or student-relevant examples - Lacks explicit connections to students' potential career or future interests

## Misconceptions

### Summary:

The lesson shows a robust framework for conceptual learning, with a strong focus on addressing potential misunderstandings

### Strengths:

Comprehensive and proactive approach to identifying and addressing potential misconceptions

### Areas for Improvement:

Need for more personalized and interactive misconception resolution strategies

### Criteria:



## Eliciting Misconceptions



### Overview:

### Strengths:

### Areas for Improvement:

The lesson plan proactively identifies potential misconceptions, demonstrating a thoughtful approach to conceptual learning.

- Explicitly lists common misconceptions about wave motion - Includes targeted explanations to address potential misunderstandings

- Could use more interactive methods to surface student misconceptions - Might benefit from diagnostic questioning techniques

## Recognising Misconceptions



### Overview:

The lesson shows a structured approach to recognizing potential conceptual

misunderstandings in wave physics.

### Strengths:

- Provides clear explanations for common misconceptual thinking - Addresses specific misunderstandings like

energy transfer and wave propagation

### Areas for Improvement:

- Could include more diagnostic tools to recognize individual student misconceptions - Lacks personalized strategies for

identifying unique conceptual barriers

## Reconstructing or Overcoming Misconceptions



### Overview:

The lesson plan demonstrates a deliberate strategy for addressing and reconstructing potential misconceptions about wave phenomena.

### Strengths:

- Uses clear, precise language to deconstruct misconceptions - Provides alternative explanations and visual aids to support conceptual understanding

### Areas for Improvement:

- Could include more interactive conceptual change strategies - Might benefit from more scaffolded approaches to reconstructing understanding

# Inclusion and Challenge

## Stretch and Challenge

### Summary:

The lesson provides a structured approach to stretch and challenge, but could be more responsive to individual student needs.

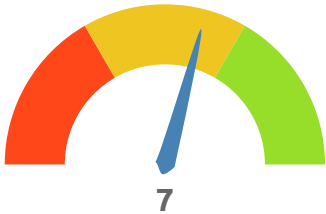
### Strengths:

The lesson plan shows a strong commitment to challenging students by building complexity and requiring them to apply wave concepts in increasingly sophisticated ways.

### Areas for Improvement:

More explicit strategies are needed to support students with different starting points and learning speeds.

### Criteria:



## Progressing from Prior Knowledge



### Overview:

The lesson demonstrates a thoughtful approach to building knowledge progressively, starting with foundational concepts and moving towards more complex problem-solving. However, the adaptive teaching strategies could be more nuanced to truly support learners across different prior knowledge levels.

### Strengths:

- Clear progression from basic wave concepts to complex problem-solving - Structured learning cycle that builds complexity gradually - Starter quiz assesses prior knowledge before introducing new concepts - Includes problem-solving activities that extend beyond basic understanding

### Areas for Improvement:

- Could provide more explicit scaffolding for students with varying prior knowledge levels - Might benefit from additional adaptive teaching strategies to support different learning paces - No clear differentiation strategies for high-achieving students

## SEND

### Summary:

The lesson lacks comprehensive neuroaffirming approaches and specific strategies to support students with diverse learning needs.

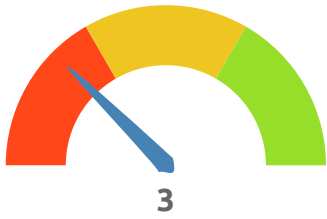
Strengths:

The lesson demonstrates a structured approach to learning with multiple opportunities for understanding and engagement.

Areas for Improvement:

Significant improvements are needed in explicit SEND support, progress tracking, and self-regulation strategies.

Criteria:



Needs



Overview:

While the lesson shows some consideration for different learning styles, it lacks explicit strategies for supporting students with specific learning needs.

Strengths:

- Lesson includes multi-modal learning approaches (visual aids, diagrams, animations) - Uses clear, structured explanations that could support neurodivergent learners

Areas for Improvement:

- No explicit mention of specific SEND strategies - No clear indication of how different learning needs will be accommodated - Lacks specific adaptive teaching approaches for neurodivergent students

Progress



Overview:

The lesson provides a structured approach to learning, but lacks specific mechanisms to ensure progress for all learners, particularly those with additional needs.

Strengths:

- Structured learning cycle supports incremental understanding - Includes multiple opportunities for checking understanding - Provides visual and conceptual scaffolding

Areas for Improvement:

- No personalized progress tracking mechanisms - Limited evidence of how individual student progress will be monitored - No clear strategies for supporting students who might struggle

Self-Regulation



Overview:

While the lesson includes some elements that could support self-regulation,

Strengths:

- Starter and exit quizzes could support metacognitive awareness - Problem-solving

Areas for Improvement:

- No explicit self-regulation strategies mentioned - Lacks tools for students to track

there are no explicit strategies to develop students' ability to monitor and manage their own learning.

activities encourage independent thinking

their own learning - No guidance on how students might reflect on their understanding



# Adaptive and Responsive teaching

## Feedback opportunities

### Summary:

The lesson shows potential for effective feedback but requires more sophisticated adaptive teaching approaches.

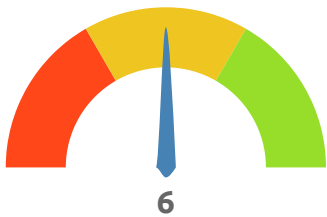
### Strengths:

Comprehensive approach to learning communication through quizzes, visual aids, and multi-modal explanations

### Areas for Improvement:

Need for more individualized and responsive teaching strategies

### Criteria:



## Communicating Learning



### Overview:

The lesson plan demonstrates a structured approach to communicating learning through quizzes, explanations, and visual representations, but could enhance pupil agency in communication.

### Strengths:

- Includes a prior knowledge starter quiz that allows pupils to communicate initial understanding - Provides multiple opportunities for pupils to explain wave concepts through questions and model answers - Uses visual aids and diagrams to support multi-modal communication of learning

### Areas for Improvement:

- Could include more opportunities for pupil-led explanations and peer feedback - Might benefit from more interactive communication strategies beyond written and visual modes

## Pupil Feedback



### Overview:

The lesson includes whole-class feedback mechanisms but lacks nuanced, individualized feedback strategies.

### Strengths:

- Starter quiz allows whole-class immediate feedback - Exit quiz provides opportunity for collective assessment - Multiple-choice

### Areas for Improvement:

- Limited strategies for individual pupil feedback - No clear mechanism for adaptive response to feedback - Lacks formative assessment during lesson progression

## Evidence of Adaptive Teaching



### Overview:

While the lesson demonstrates awareness of potential learning variations, it lacks robust adaptive teaching mechanisms.

### Strengths:

- Includes misconception clarification sections - Provides multiple explanatory approaches to wave concepts - Offers different levels of complexity in explanations

### Areas for Improvement:

- No explicit mechanism for real-time lesson adaptation - Limited evidence of responsive teaching strategies - Lacks clear differentiation for varied learner needs

## Assessment

### Summary:

The assessment strategy shows potential but requires significant enhancement in personalization and diversity.

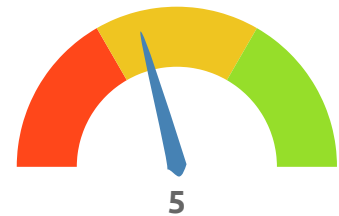
### Strengths:

Structured approach to identifying learning progression and potential misconceptions

### Areas for Improvement:

Need for more diverse, personalized, and adaptive assessment strategies

### Criteria:



## Types of Assessment



### Overview:

The lesson relies heavily on written assessments, missing opportunities for diverse assessment approaches.

### Strengths:

- Prior knowledge quiz (diagnostic assessment) - Exit quiz (summative assessment) - Embedded conceptual checks throughout lesson

### Areas for Improvement:

- Limited formative assessment during lesson - Lacks diverse assessment methods beyond multiple-choice - No performance-based or practical assessments

## Assessment for Learning



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**Overview:**

The lesson demonstrates basic assessment for learning principles but lacks depth in personalized learning progression.

**Strengths:**

- Identifies potential misconceptions - Provides explanatory model answers - Structured progression of complexity in learning

**Areas for Improvement:**

- Minimal evidence of using assessment data to modify instruction - No clear mechanism for tracking individual student progress - Limited metacognitive reflection opportunities

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**Use of Assessment for Learning Data****4**

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**Overview:**

While the lesson acknowledges potential learning variations, it does not robustly integrate assessment data into instructional design.

**Strengths:**

- Misconception sections suggest awareness of potential learning gaps - Multiple explanation strategies for complex concepts

**Areas for Improvement:**

- No explicit strategy for using quiz data to inform subsequent instruction - Lacks individualized learning pathways - No mechanism for students to reflect on their own assessment data

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**Diversity of Assessment****5**

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**Overview:**

The lesson demonstrates limited diversity in assessment approaches, predominantly using written multiple-choice methods.

**Strengths:**

- Multiple-choice assessments - Conceptual understanding checks - Visual and written assessment modes

**Areas for Improvement:**

- Over-reliance on multiple-choice format - No practical or performance-based assessments - Limited multi-modal assessment strategies

# Cognitive Science

## Managing Cognitive Load

### Summary:

The lesson shows potential in managing cognitive load but requires more deliberate instructional design.

### Strengths:

Progressive learning approach with varied activities

### Areas for Improvement:

More explicit cognitive load management strategies needed

### Criteria:



## Evidence of Cognitive Load Theory



### Overview:

The lesson demonstrates an implicit understanding of cognitive load theory by sequencing wave concepts progressively, but lacks explicit cognitive load management strategies.

### Strengths:

- Structured lesson progression with clear learning outcomes - Breaks down complex wave concepts into foundational components - Uses visual aids and diagrams to support understanding

### Areas for Improvement:

- Could provide more explicit signposting of cognitive load management strategies - Limited explicit chunking of information - No clear worked examples demonstrating cognitive load reduction techniques

## Activities and Working Memory



### Overview:

The lesson includes activities that engage working memory, but could be more intentionally designed to manage cognitive load effectively.

### Strengths:

- Prior knowledge quiz helps activate existing mental schemas - Multiple-choice questions support retrieval practice - Varied activities targeting different cognitive processes

### Areas for Improvement:

- No explicit strategies to manage working memory load - Activities could be more deliberately designed to reduce cognitive strain - Limited scaffolding for complex concepts

# Retrieval Practice

## Summary:

Retrieval practice is present but could be more strategically implemented.

## Strengths:

Strong emphasis on recall and application of knowledge

## Areas for Improvement:

More systematic approach to retrieval and memory encoding needed

## Criteria:

### Use of Retrieval Practice



#### Overview:

The lesson incorporates retrieval practice through quizzes but could enhance retrieval strategies more systematically.

#### Strengths:

- Prior knowledge starter quiz supports retrieval - Exit quiz provides opportunities for recall - Multiple-choice questions encourage active recall

#### Areas for Improvement:

- Limited spaced retrieval opportunities - Could incorporate more low-stakes retrieval throughout lesson - No explicit metacognitive strategies for retrieval

### Moving on From Retrieval



#### Overview:

The lesson attempts to move beyond initial retrieval by applying knowledge, but lacks explicit strategies for long-term memory encoding.

#### Strengths:

- Connects retrieved knowledge to new learning about wave concepts - Provides opportunities to apply retrieved knowledge in problem-solving - Builds complexity progressively

#### Areas for Improvement:

- Limited explicit guidance on encoding retrieved information - Could provide more structured reflection on retrieved knowledge - No clear strategy for long-term memory consolidation

# Reducing Cognitive Load

## Summary:

The lesson demonstrates basic strategies for reducing cognitive load but lacks advanced instructional techniques.



## Strengths:

Systematic introduction of wave concepts with clear progression

## Areas for Improvement:

More sophisticated cognitive load reduction strategies required

## Criteria:

### Scaffolds, Narration, and Worked Examples



#### Overview:

The lesson offers basic scaffolding but lacks comprehensive worked examples and explicit problem-solving strategies.

#### Strengths:

- Provides clear definitions of wave parameters - Uses visual narration through wave diagrams - Breaks down complex concepts into manageable steps

#### Areas for Improvement:

- Limited explicit worked examples - Could provide more detailed scaffolding for complex calculations - No clear modeling of problem-solving strategies

### Chunking and Foundational Concepts



#### Overview:

The lesson provides a structured approach to introducing foundational concepts but could enhance conceptual chunking.

#### Strengths:

- Clearly defines foundational wave concepts - Breaks down wave parameters systematically - Provides progressive complexity in learning

#### Areas for Improvement:

- Could use more explicit chunking techniques - Limited visual representations of conceptual relationships - No clear conceptual mapping

# Metacognition

## Metacognition

### Summary:

A well-structured lesson that supports metacognitive learning through varied activities and assessment opportunities

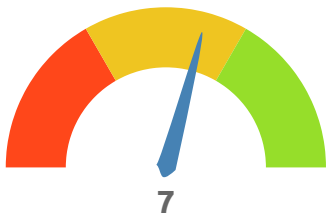
### Strengths:

Comprehensive approach to metacognitive learning with multiple reflection points

### Areas for Improvement:

Could be more explicit about metacognitive strategies and self-reflection processes

### Criteria:



## Opportunities



### Overview:

The lesson provides structured opportunities for students to think about their learning process, with multiple points of self-assessment and knowledge checking.

### Strengths:

The lesson includes multiple opportunities for metacognitive reflection, such as: - Prior knowledge starter quiz - Checks for understanding throughout the lesson - An exit assessment quiz - Problem-solving activities that require students to apply and reflect on wave concepts

### Areas for Improvement:

Could include more explicit metacognitive prompts like "How do you know?" or "Explain your reasoning" Could incorporate more self-reflection moments where students evaluate their own understanding

## EEF and Step Model



### Overview:

The lesson follows a structured approach to metacognitive learning, though could be more

### Strengths:

The lesson incorporates several stages of the EEF metacognition model: - Activating prior knowledge (starter quiz) - Explicit

### Areas for Improvement:

Could more explicitly label metacognitive steps Could include more moments of explicit strategy planning and monitoring

explicit about the metacognitive process.

instruction of wave concepts  
- Guided practice through problem-solving -  
Independent application in exit quiz

## Success Criteria



### Overview:

The lesson provides a clear overarching learning outcome with supporting learning points.

### Strengths:

Clear learning outcome: "I can describe wave motion using amplitude, wavelength, frequency, and period"  
Explicit learning points and keywords provided

### Areas for Improvement:

Success criteria could be more granular Could include student-friendly success criteria for each learning activity

## Self-Assessed Progress



### Overview:

Students have multiple chances to assess their own learning progress throughout the lesson.

### Strengths:

Multiple opportunities for self-assessment: - Prior knowledge quiz - Checks for understanding - Problem-solving activities - Exit quiz

### Areas for Improvement:

Could include more explicit self-assessment tools Could provide clearer guidance on how students can track their own progress



# Lesson Structure

## Who Leads the Lesson?

### Summary:

The lesson demonstrates a structured approach to teaching wave physics, but could enhance student autonomy and active learning.

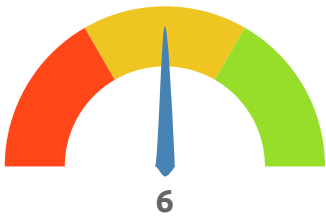
### Strengths:

Clear instructional structure with systematic explanation of wave concepts

### Areas for Improvement:

Limited opportunities for student-led learning and independent discovery

### Criteria:



## Who Leads the Lesson?



### Overview:

The lesson follows a traditional instructional model with teacher-guided learning, which provides clear structure but could benefit from more student agency and active learning strategies.

### Strengths:

The lesson appears to be predominantly teacher-led, with structured explanations, demonstrations, and guided practice. The lesson follows a clear pedagogical sequence with explicit instruction and opportunities for student engagement.

### Areas for Improvement:

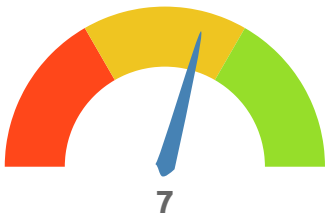
Could incorporate more student-led inquiry and opportunities for independent exploration of wave concepts. Consider adding more open-ended investigative activities.

## Parts of the Lesson

### Summary:

The lesson provides a structured approach to teaching wave physics with multiple instructional strategies.

### Strengths:



Comprehensive coverage of wave concepts with structured learning activities

## Areas for Improvement:

Limited diversity in learning activity types and student-led exploration

## Criteria:

### Exposition



#### Overview:

The exposition provides thorough coverage of wave concepts with clear, structured explanations.

#### Strengths:

Comprehensive and clear exposition of wave parameters including amplitude, wavelength, frequency, and period. Uses multi-modal explanations with visual aids and conceptual definitions.

#### Areas for Improvement:

Could reduce lecture-style exposition and incorporate more interactive explanation techniques.

### Group Work



#### Overview:

Group work is present but not extensively developed in the lesson plan.

#### Strengths:

Includes collaborative problem-solving activities and wave parameter analysis tasks.

#### Areas for Improvement:

Limited explicit group work strategies; could develop more structured collaborative learning experiences.

### Pair Work



#### Overview:

Pair work opportunities are implied but not systematically integrated into the lesson design.

#### Strengths:

Potential for pair work during problem-solving and concept checking activities.

#### Areas for Improvement:

Pair work strategies are not explicitly outlined in the lesson plan.

### Demonstrations



#### Overview:

#### Strengths:

#### Areas for Improvement:

Demonstrations are recommended as a key pedagogical strategy for explaining wave concepts.

Suggests using visual aids like wave diagrams, slinky demonstrations, and animations to illustrate wave concepts.

Could provide more detailed guidance on demonstration techniques and student engagement during demonstrations.

## Guided Practice



### Overview:

Guided practice is well-integrated into the lesson, supporting student understanding progressively.

### Strengths:

Includes structured guided practice through problem-solving, concept checking, and worked examples.

### Areas for Improvement:

Could vary guided practice techniques to support diverse learning needs.

## Worked Examples



### Overview:

Worked examples are comprehensive and support student learning effectively.

### Strengths:

Provides clear model answers and step-by-step explanations for wave-related calculations and conceptual understanding.

### Areas for Improvement:

Could include more varied complexity levels in worked examples to challenge different student capabilities.

## Independent Practice



### Overview:

Independent practice is integrated but could be expanded to promote deeper student autonomy.

### Strengths:

Includes exit quiz and problem-solving tasks that encourage independent application of wave concepts.

### Areas for Improvement:

Could develop more open-ended independent practice opportunities that allow for creative exploration.

# Strategies

## Critical Thinking and Problem Solving

### Summary:

The lesson demonstrates a solid foundation in critical thinking approaches, with room for more complex problem-solving strategies.

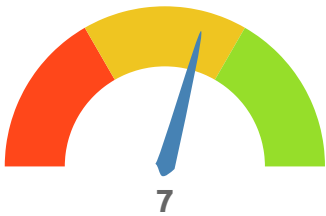
### Strengths:

Systematic approach to introducing wave problem-solving concepts

### Areas for Improvement:

Need for more open-ended, student-led critical thinking opportunities

### Criteria:



### Occurrence



#### Overview:

The lesson provides structured opportunities for critical thinking through analytical wave problem-solving, but could be enhanced with more student-directed investigative approaches.

#### Strengths:

- Lesson includes problem-solving activities around wave parameters - Students are asked to calculate wave speed, frequency, and wavelength - Multiple activities require analytical thinking about wave concepts

#### Areas for Improvement:

- Could include more open-ended problem-solving scenarios - Might benefit from more student-led investigative activities - Limited opportunities for students to design their own wave experiments

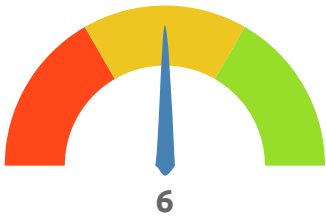
## Mastery

### Summary:

The lesson shows a commitment to mastery learning principles, with potential for more sophisticated implementation.

### Strengths:

Structured learning progression with consistent concept reinforcement



## Areas for Improvement:

Need for more personalized and adaptive learning strategies

## Criteria:

### Use of Mastery Approach



#### Overview:

The lesson employs a structured mastery approach with sequential concept introduction, but lacks nuanced adaptive teaching strategies.

#### Strengths:

- Structured learning cycles with clear progression - Step-by-step introduction of wave concepts - Repeated opportunities to apply learning through quizzes and activities

#### Areas for Improvement:

- Could include more personalized pathways for different learning speeds - Limited evidence of adaptive teaching strategies - Minimal scaffolding for students struggling with concepts

### Evidence in the Activities



#### Overview:

Activities demonstrate a progressive approach to concept mastery, with opportunities for repeated practice and assessment.

#### Strengths:

- Multiple activities reinforce wave concept understanding - Exit quiz tests comprehensive mastery - Gradual complexity increase in problem-solving tasks

#### Areas for Improvement:

- Limited differentiation for varied student capabilities - Could include more multi-modal learning opportunities - Minimal peer learning or collaborative mastery activities

## Oracy

### Summary:

The lesson demonstrates potential for oracy development but requires more intentional implementation.

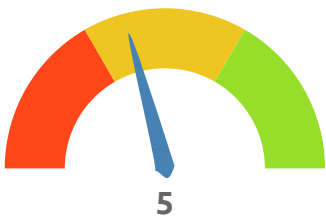
### Strengths:

Scientific language introduction and precise terminology usage

### Areas for Improvement:

Need for more structured, collaborative oracy development

## Criteria:



## Use of Oracy



5

### Overview:

The lesson introduces scientific language but lacks structured oracy development strategies.

### Strengths:

- Encourages scientific language use around wave concepts - Includes opportunities for explaining wave phenomena - Introduces precise technical vocabulary

### Areas for Improvement:

- Limited explicit structured speaking activities - No clear peer discussion or debate opportunities - Minimal guidance on academic scientific communication

## Aspirational Language



6

### Overview:

Aspirational language is present but not systematically developed throughout the lesson.

### Strengths:

- Uses precise scientific terminology - Introduces complex wave concepts accessibly - Encourages students to articulate scientific understanding

### Areas for Improvement:

- Could include more challenging linguistic frames - Limited explicit language scaffolding - No clear progression of academic language complexity

## Use in Activities



5

### Overview:

Activities provide some opportunities for language use, but lack dedicated oracy skill development.

### Strengths:

- Quiz activities require verbal/written explanation - Opportunities to describe wave phenomena - Multiple-choice questions encourage precise language use

### Areas for Improvement:

- No explicit pair or group discussion activities - Limited collaborative language development - Minimal structured speaking tasks

# Sections

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## Learning Outcome

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Learning objective for the lesson on wave motion



## Prior Knowledge Requirements

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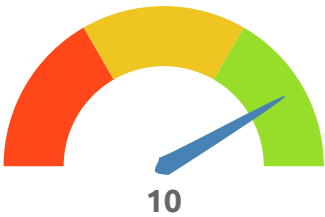
Suggested prerequisite knowledge for understanding wave concepts



## Key Learning Points

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Detailed definitions of wave parameters: amplitude, wavelength, frequency, and period



## Misconceptions and Common Errors

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Identification and clarification of potential student misunderstandings about wave concepts



# Learning Cycles

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Structured approach to teaching wave concepts through explanation, understanding checks, practice, and feedback



# Visual and Multi-Modal Learning

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Use of visual aids, diagrams, and multi-modal learning strategies

