

NGSS MS-PS4-3

Curriculum Bundle

Digital vs Analog Signals - Wave Communication and Data Transmission

- ✓ 1 Lesson and 1 Activity
- ✓ Everything You Need to Teach NGSS MS-PS4-3



Resources Included

✓ 1 Lesson

✓ 1 Activity

- Digital vs Analog Signals for Communication – Lesson
- How Waves Are Used for Communication - Reading

Digital vs Analog Signals for Communication
6th, 7th, 8th Grade Lesson

✓ **Comprehensive Content Overview** – Covers what a signal is and how digital and analog signals are different. It also talks about how signals are transmitted as well as which signal is preferred.

✓ **Student-Friendly Format** – Clear visuals and comparisons support understanding of complex concepts.

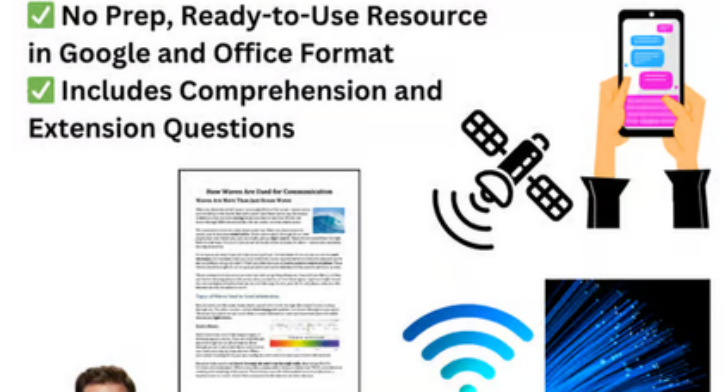


Teach With Fergy

Reading Comprehension Passage & Questions
How Waves Are Used for Communication

✓ **No Prep, Ready-to-Use Resource** in Google and Office Format

✓ **Includes Comprehension and Extension Questions**



Teach With Fergy

8th Grade and Up Science

The Standard is Explained and the Resources it Incorporates are Outlined

California Preferred Integrated NGSS Course Model – Grade 8 MS PS4 Waves and their Applications in Technologies for Information Transfer

MS PS4-3: Integrate qualitative scientific and technical information to support the claim that digitized signals are a more reliable way to encode and transmit information than analog signals.

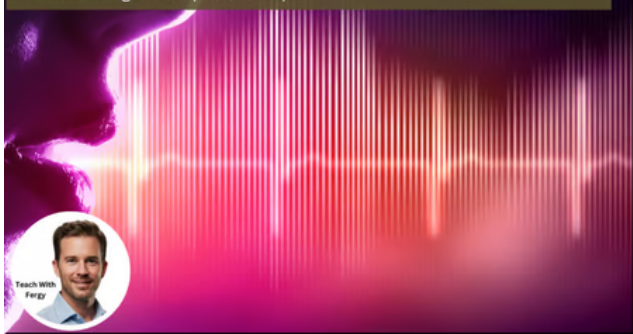
Emphasis is on a basic understanding that waves can be used for communication purposes. Examples could include using fiber optic cable to transmit light pulses, radio wave pulses in wi-fi devices, and conversion of stored binary patterns to make sound or text on a computer screen. *Assessment Boundary:* Assessment does not include binary counting. Assessment does not include the specific mechanism of any given device.

Resources:

- Digital vs Analog Signals for Communication – Lesson
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Digital vs Analog Signals for Communication 6th, 7th, 8th Grade Lesson

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Reading Comprehension Passage & Questions

How Waves Are Used for Communication

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8th Grade and Up Science

Who is this Bundle for?

- **Teachers who teach middle school science and use the NGSS**
- **Teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to meet the standard**
- **Teachers who don't have time to develop their own resources or organize what to teach and when**