

Strand 8.2	Standard 8.2.6	Episode 4	Big Idea: Digital signals are a more reliable way to store or transmit information than analog signals.
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Title: Collecting Evidence	Time: 20-30 mins	CCCs <u>Structure and Function</u>	Practices Obtain, evaluate and communicate
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Narrative of episode: Students sort 20 objects/technologies that store or transmit signals into two groups and then ask questions about the objects, technologies, means of communication and signals.

Gather and Reason

Now that students have a better understanding of digital and analog signals, students will again sort twenty cards with labeled images of objects/technologies that store or transmit signals as analog or digital waveforms.

Note: Alternatively, students could sort or classify real objects in a classroom rather than the cards.

Communicate

Students will then participate in discussion about the classifications and adjust their personal records. Lastly, they will ask questions about these objects, technologies, means of communication and signals.

Assessment: Student learning can be formatively assessed during class discussion of the classification. Also, students will have a table of objects classified according to the signals they store or transmit. Lastly, they will have asked questions that lead them into the next learning episode.	Materials, resources, handouts, etc.: Cards for Teacher Distribution Student assignment sheet
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