

Analog World / Digital World

Transmitting Information

Name: _____

Date: _____

Directions: Choose something to measure such as weight, temperature, size, or quantity. Describe what it is you are trying to measure and use analogies to convey that information. You may not use a measuring device, but describe the device that you would use if you could.

1. Draw a picture of what you would like to measure.

2. Describe what it is you are trying to measure in words.

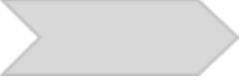
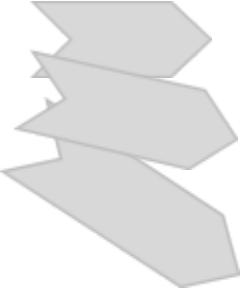
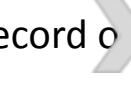
3. Now you will encode your measurement using letters and words. Use analogies to convey your measurement. Ex. It is as warm as _____.

4. Describe the measuring device you would use if you could for this task.

5. You need to share your measurement with another person. Who is that person, where are they located, and how will you transmit the information to them?

Transmitting Information

Present qualitative scientific and technical information to support the claim that digitized signals (sent as save pulses representing 0's and 1's) can be used to encode and transmit information.

Information (Message)	Encode	Transmit
Analog: Sound Length Weight Temperature Time Color	Words 	Speech
Sound 	Microphone  AM/FM modulation  Record on (vinyl)record or tape 	PA System Telephone Radio Hand deliver
Digital: Digital Display 	Words Binary Code CD code 	Hand deliver

Sample analog
signal

Create list of
numbers

Binary Code

Internet