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NEUROHEADWAY

Neuroscience Into Education

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SATELLITE COMMUNICATION

INTRODUCTION

Teacher info:

- Satellites are semi-autonomous machines.
- They report to us in regular periods about their "health" status
 - These data are called **"telemetry"**
 - Together with the science data, telemetry is part of the data **downlink**
- We send to them commands what they should do next
 - These data are called **"telecommand"**
 - Telecommand is part of the data **uplink**

INTRODUCTION

- Why do satellites need to communicate with earth?
- To enable the satellites to share with us the information they gather, we must be able to communicate with them.

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SATELLITE COMMUNICATION

INTRODUCTION

Teacher info:

- Just a signal is not already a communication
- A person can make a sound, so you notice a signal leaving the mouth, but it does not mean that a communication took place
- Only when speech is modulated onto the sound that leaves our mouth, information is embedded into the sound that leaves the mouth
- The receiver is able to "decode" and such understand the sound as an information, if the same set of coding (language) is used. Otherwise it might be misinterpreted as just noise

CLASSROOM COMMUNICATION

- Q2:**
 - How does communication work in general here on ground?
 - How is the communication in the classroom?
- A2:**
 - Someone speaks, and uses his/her mouth to generate a sound
 - Just the sound however, is not already a communication
 - The mouth/tongue is able to modulate the sound to become speech, only then giving it information
 - Others listen and receive the sound through their ears
 - If the language is understood, the information is received by the target of the transmission
- Q3:**
 - So what is needed to communicate?
 - What are the parts of the communication "system"?
- A3:**
 - A sender or transmitter to generate the signal
 - I.e. the person who speaks
 - A way to include into the signal some information
 - A receiver
 - I.e. the person who listens
 - A way to detect the information in the signal

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