			Office Lesson 3
Name(s)	Period	Date	

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TCCIVICY	Julue -				MESSAG	3



Develop your Protocol: You and your partner will need to send a 2-bit message back and forth on the Internet Simulator. One partner will have a secret 2-bit message (for example BA). When your teacher says "Go" that partner will send the message using the Internet Simulator. The second partner will then send the same message back. At the end you'll check that the correct secret message was successfully sent back and forth.

Your Protocol: You will need to agree on rules, or a "protocol" to make this message exchange work. Develop your protocol in the space below. Make sure you consider:

How will you know	when the exchange is supposed to begin? whose turn it is to send or receive the message? dinate your actions?	
	g a 2-bit message back and forth (4 bits sent in total). Try to get yoistakes. Record your fastest time in the space below.	your time as low as
Bits Transmitted: 4	Time in Seconds:	

Challenge: Extend your protocol so that it can send more bits. Can you make it work for 4-bit messages or 8-bit messages? Keep improving your protocol so that you can send more bits as quickly as possible without making mistakes.

Bit Rate: A bit rate is a measure of how fast a system transmits bits. You can calculate your protocol's bit rate by dividing the number of bits sent by the amount of time it takes. Calculate your bit rate for one of your fastest runs of your protocol. Note: If you send 4 bits back and forth, you've actually transmitted 8 bits.

Bits Transmitted:	Time in Seconds:	Bit rate:	bits/sec