

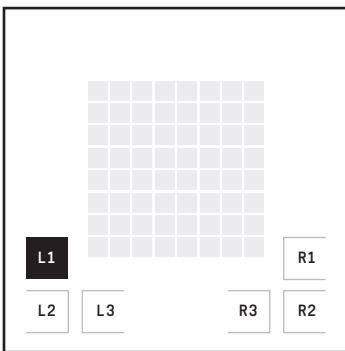
# WORKSHEET W018b

## COMMUNICATION II

For this worksheet you need a partner who will do the worksheet A018a in parallel. This worksheet is about sending direct messages.

### EXERCISE

Put a program together to receive and process certain messages from another Oxocard.

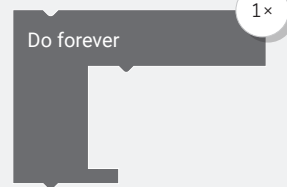


When the button on the transmitter oxocard is pressed, the receiver display switches on or off.

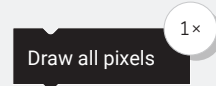
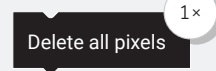
### HINT

First position the «Connect to Internet» and «Enable messages» blocks. In the loop you will then work with an «if/else» block.

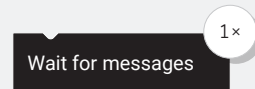
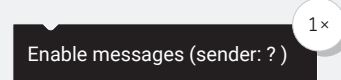
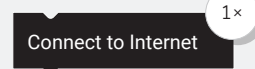
#### LOGIC



#### MATRIX



#### COMMUNICATION



#### PARTS LIST LIST OF BLOCKS TO BE USED



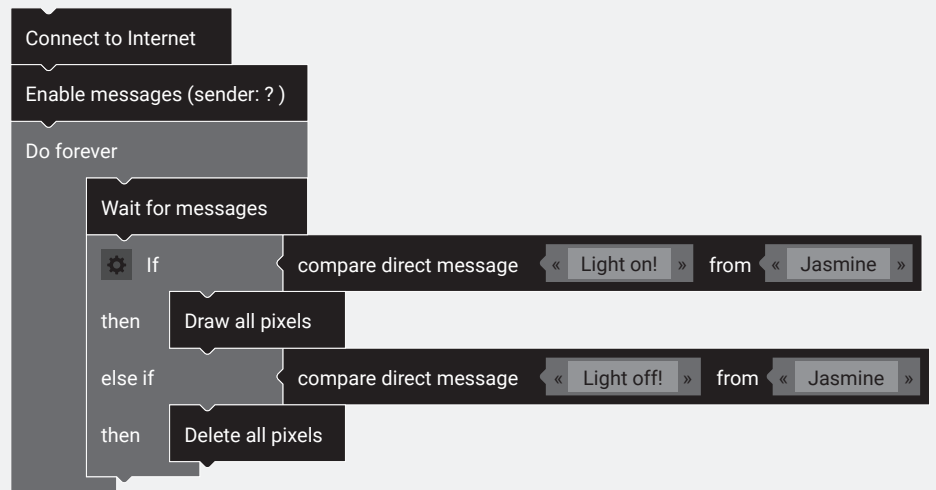
LEVEL INTERMEDIATE

# WORKSHEET W018b

## COMMUNICATION II

### SOLUTION

PROPOSED SOLUTION



# WORKSHEET

## W018b

### COMMUNICATION II

#### Learning objective:

Capacity to receive short messages with your Oxocard.

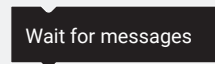
## WHAT TO DO

1.  
First connect the Oxocard to the Internet, then position the «Enable messages» block.
2.  
Then comes the «Do forever» loop. All other blocks must be positioned in this loop.
3.  
Since this is a receiver Oxocard, the block «Wait for message» is used. Only if a message was received, the program continues to run.
4.  
Now you make a query in an «if/else» block which checks whether a «light on» or a «light off» was sent from the partner card.
5.  
With a «light on» the LED matrix is switched on and with a «light off» it is switched off again.

## NEW COMMANDS



This block is usually used in an «if/then» block. The entered text is compared with the received message from the defined sender. If the two short messages are identical, the block returns a «true», which then executes the «then» column.



This block is used to receive the Oxocard messages. The program will not continue until a message has been received.