

Math Projects: Arithmetic Worksheets

with Robo Wunderkind Robotics Kit



Project 1: Robo Sends Light Signals

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Robo's Story:

Some robots can speak and some cannot, but there are many different types of communication between robots, such as different light signals, secret codes or ciphers. Can our Robo speak? Can we teach it to create a cipher using the light signals?

(!) Project Goal:



688 Encode a message

Cipher Key

- 1 How are you?
- **3** What is your name?
- 5 Do you want to play together?
- **7** What kind of robot are you?
- 9 Do you want to learn math?

Messages

- 1. Hi! I am Robo! What is your name?
- 2. How are you? What is your name? I want to play together! Do you want to learn math?
- **3.** I am a very friendly robot. I want to be friends with you! Do you want to play together?
- **4.** I am Robo. I am a very friendly robot. What is your name? What kind of robot are you?
- 5. Your message -

2 Hi!
4 I am Robo!
6 I want to be friends with you!
8 I want to play together!
10 I am a very friendly robot.

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688 / 888 Create own cipher

Cipher Key

Messages

 \bigcirc What did I learn?



NAME / DATE

Project 2: Robo Decodes a Secret Message



Robo's Story:

Robo received a cipher – a message from the other robots. There is a key for decoding it but Robo will need our help to do it.

Project Goal:







Cipher Key

Messages





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Project 3: Robo Decodes a Secret Map



Robo's Story:

Robo received a secret message from the other robots - it's a map to Robot City. It is written in a special cipher and Robo needs to decode it.

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Project Goal:





Project 4: Robo Travels to Robot City



dub Robo's Story:

Robo wants to travel to Robot City and meet other robots

Project Goal:





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Project 5: Robo Travels to Robot City

د الله Robo's Story:

Robo arrives in Robot City, ready to meet other robots. It will need to make different light signals, sounds and movements to decode and encode ciphers and communicate with other robots.

! Project Goal:







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