Ramona Challenge: MakerDen 2018
Calling Artists and Engineers

Designing a paper circuit: (adapted from hackseter.io)

You goal is to, in the time permitted, design a picture on half of an 8 x 11.5 inch paper that incorporates a lighting system through the use of LEDs, copper tape, and batteries.

Participants: Each school may enter ONE TEAM per Division. Each team consists of 2 or 3 students. Divisions: 5/6 and 7/8

Materials: The following materials are provided for use

- Copper tape
- 3 to 5 Cr2025 batteries
- Assorted LED lights
- Roll of Scotch tape
- 8 x 11.5 inch Paper

Materials you should bring: Coloring pencils or crayons to create your picture.

Contest: Your circuit will be judged according to

- Functionality – does it work as designed?
- Creative use of lights
- Integration of your circuit with your picture
- Originality

Additonal Teacher Resources:

https://learn.sparkfun.com/tutorials/the-great-big-guide-to-paper-circuits

http://highlowtech.org/?p=2505

MakerDen:

PLEASE RETURN THIS PORTION TO RAMONA BY APRIL 20, 2018.

SCHOOL NAME: _____

Applicants for grade 5/6 division:

Name/Grade _____

Name/Grade _____

Name/Grade _____

Applicants for grade 7/8 division:

Name/Grade_____

Name/Grade_____

Name/Grade_____