



Science Journal

Journal of the Department of Science, University of the South Pacific

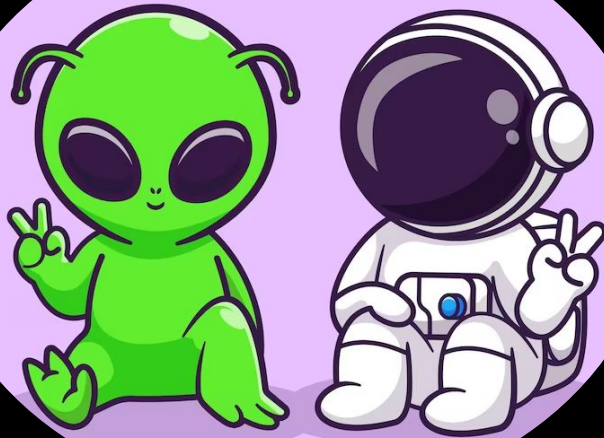
TEAM MEMBERS

- ❖ NAOMI CONSTANTINO
- ❖ ASHLEY McDONALD
- ❖ LEXIE ZIMMERMAN
- ❖ LEXI ANDERSON

SUPPLY LIST

- MARBLE HYDRAULIC SCREW
- MARBLES
- DOMINOES
- PAPER TOWEL ROLLS
- TOILET PAPER ROLLS
- POPSICLE STICKS
- WASHI TAPE
- SHOE BOXES
- PAINT STIRRING STICKS
- MARBLE TRACK
- WOOD TRACK
- PAINT
- CARDBOARD

Escape From The Aliens



ACTION #1

- DOMINOS
- THE DOMINO BLOCK HITS THE BIG METAL MARBLE WHICH LEADS TO ACTION #2

ACTION #2

- THE BIG METAL MARBLE
- THE BIG METAL MARBLE FALLS INTO THE CUP WHICH LEADS TO ACTION #3

ACTION #3

- THE PULLEY CUP
- THE MARBLE FROM ACTION #2 WEIGHS THE CUP DOWN AND THE STRING ATTACHED TO THE SWITCH GETS PULLED WHICH LEADS TO ACTION #4

ACTION #4

- THE SWITCH
- THE SWITCH GET PULLED BY THE STRING FROM ACTION #3 WHICH LEADS TO ACTION #5

ACTION #5

- THE HYDRAULIC SCREW
- THE MARBLE HYDRAULIC SCREW GETS ACTIVATED BY THE SWITCH AND IT BRINGS A MARBLE UP WHICH LEADS TO ACTION #6

ACTION #6

- THE TUNNEL
- THE MARBLE ROLLS DOWN THE TUNNEL WITH GRAVITATIONAL FORCE WHICH LEADS TO ACTION #7

ACTION #7

- THE LEVER
- THE MARBLE COMING DOWN THE TUNNEL HITS THE CARDBOARD LEVER WHICH ACTIVATES ACTION #8

ACTION #8

- THE BOUNCY BALL
- THE BOUNCY BALL ROLLS DOWN THE TRACK AND ACTIVATES ACTION #9

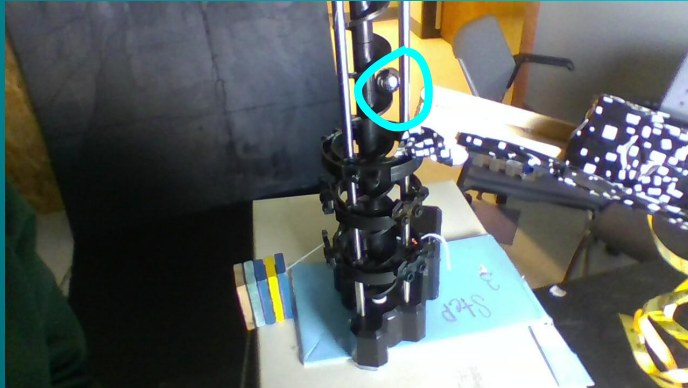
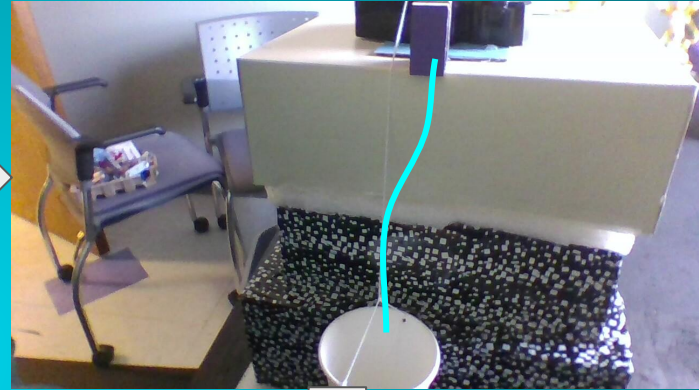
ACTION #9

- THE ELECTRIC COMPONENT
- THE ELECTRIC COMPONENT SENDS ELECTRICITY THROUGH THE RED AND BLACK WIRES

ACTION #10

- THE ALARM
- THE ALARM STARTS SIGNIFYING THAT THE ALIENS ARE THERE BUT THE MARBLE GOT OUT JUST IN TIME

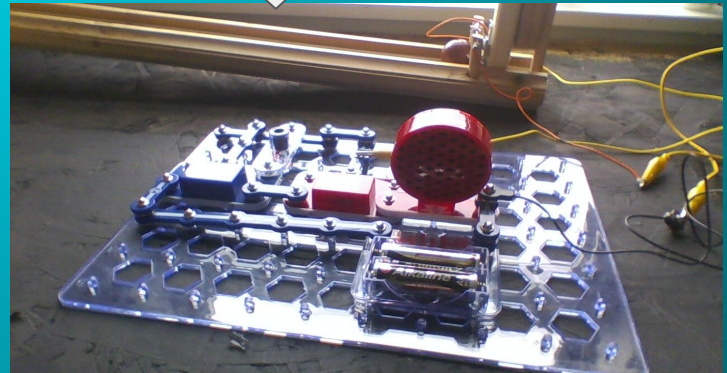
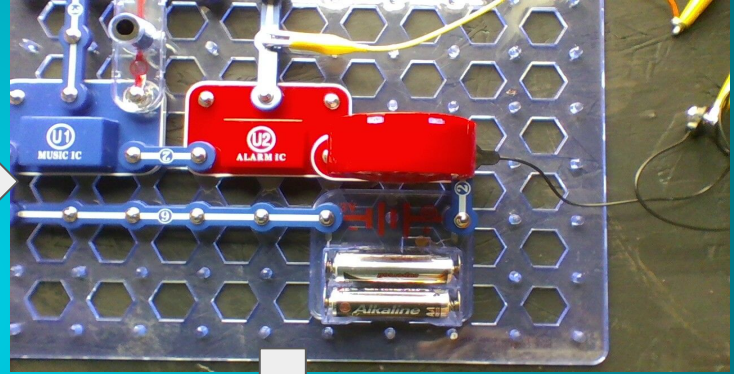
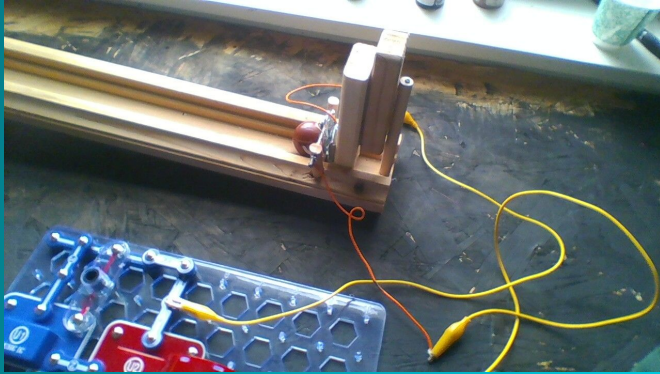
PICTURES OF OUR STEPS IN ACTION.



PICTURES OF OUR STEPS IN ACTION.



PICTURES OF OUR STEPS IN ACTION.



REFLECTION

MAJOR LOSSES : AT ONE POINT WE HAD TO REDO A WHOLE HALF OF OUR MACHINE AND WE HAD TO ADD TWO STEPS TO THE VERY BEGINNING BECAUSE THE STEPS AT THE END DIDN'T LEAD TO ANYTHING. ALSO ONE OF OUR TEAMMATES (LEXIE ZIMMERMAN) LEFT FOR A TRIP IN THE PHILIPPINES AND MISSED THE COMPETITION. AND ANOTHER ONE OF OUR TEAMMATES (LEXI ANDERSON) GOT SICK TWO DAYS BEFORE THE COMPETITION.

MAJOR SUCCESSES : WE WERE ABLE TO STAY AFTER SCHOOL TO WORK ON OUR PROJECT. WE ALSO HAD EASY ACCESS AND GOOD COMMUNICATION TO OTHER TEAMMATES. IT WAS ALSO NICE TO ASK FOR HELP BECAUSE WE HAD TEACHERS (MRAS. HENDERSON, MRS. HAUCK, MR. HAUCK) HELPED US. WHEN WE WERE STRUGGLING WITH OUR LAST FEW STEPS MR. HAUCK HELPED US SORT IT OUT AND WE GOT IT ALL TO WORK.

WORKS CITED

[HTTPS://WWW.MNSU.EDU/ABOUT-THE-UNIVERSITY/NEWS-AND-EVENTS/2023-REGIONAL-ENGINEERING-MACHINE-DESIGN-CONTEST/](https://www.mnsu.edu/about-the-university/news-and-events/2023-regional-engineering-machine-design-contest/)

[HTTPS://LEMONLIMEADVENTURES.COM/RECYCLED-MARBLE-RUN/](https://lemonlimeadventures.com/recycled-marble-run/)[HTTPS://LEMONLIMEADVENTURES.COM/RECYCLED-MARBLE-RUN/](https://lemonlimeadventures.com/recycled-marble-run/)

[HTTPS://WWW.PINTEREST.COM/LOGANRO150/MARBLE-RUNS/](https://www.pinterest.com/loganro150/marble-runs/)

[HTTPS://BUGGYANDBUDDY.COM/10-AWESOME-HOMEMADE-MARBLE-RUNS/](https://buggyandbuddy.com/10-awesome-homemade-marble-runs/)

[HTTPS://WWW.YOUTUBE.COM/WATCH?V=INOWNOXGPIXQ](https://www.youtube.com/watch?v=INOWNOXGPIXQ)

[HTTPS://WWW.MARBLEGENIUS.COM/PAGES/GALLERY](https://www.marblegenius.com/pages/gallery)