



# Join ACM's S.T.E.A.M. Team!

**Take the Monster Mission Course Challenge!**

**Plan – Design – Make – Test – Evaluate**

This Week's Challenge:

*Can you design and build your own Monster Mission Course?*

Using materials around your home (ask permission first): plan, design and create an obstacle course that includes all the following:

- Consists of *at least* 5 unique obstacles
- Requires moving (each at least once throughout the course)
  - Over
  - Under
  - Through

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Plan & Design:

1. Will you work alone, or collaborate with others to create your course?
2. What type of design will you choose?
3. What materials will you choose?
4. Will you draw your design before building?
5. What will inspire your design?

**Once constructed, put your design to the test!**

Test:

Run the course

1. Calculate your time.
2. Record.

Evaluate:

1. Were you able to get through all the obstacles? If not, WHY?
2. What factors affect your results?
  - a. Location?
  - b. Design?
  - c. The choice of materials?
  - d. Any others?
3. Do you need to make any changes? If so, redesign and try again.

Repeat the course.

- Can you improve your time? Record.
- Extend an invitation for at least one other person to run your course (adult or child)

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*Want to make the design more challenging?*

How many of the following can you include?

- Soft textured object
- Objects of the following shapes
  - Circle
  - Square
  - Triangle
  - Rectangle
- An object that is pushed / knocked over
- Add another level of height

Test and evaluate the new course.

- Was it more difficult? If so why?
- Was your time affected?
- Were you able to get through all the obstacles? If not, WHY?

***Don't forget to share your photos!!***



***Next time you're at the museum, try our Monster Mission Course and our New Fitness Challenge!***

***Coming with a group? Check out our facilitated Obstacle Course Discovery Experience***

<https://akronkids.org/visit-us/field-trips-groups>