

Marble Down Worksheet

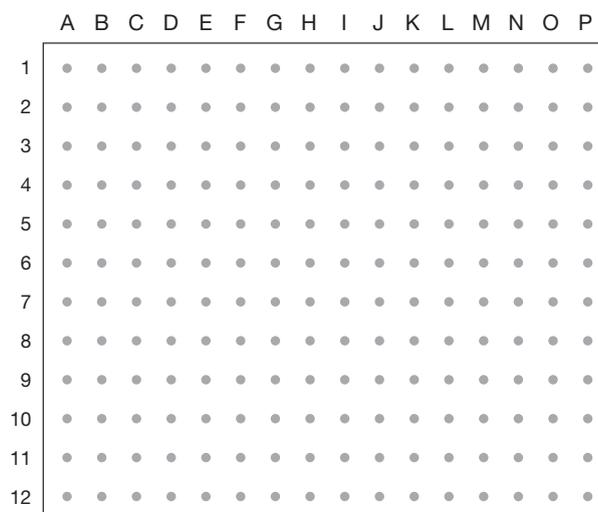
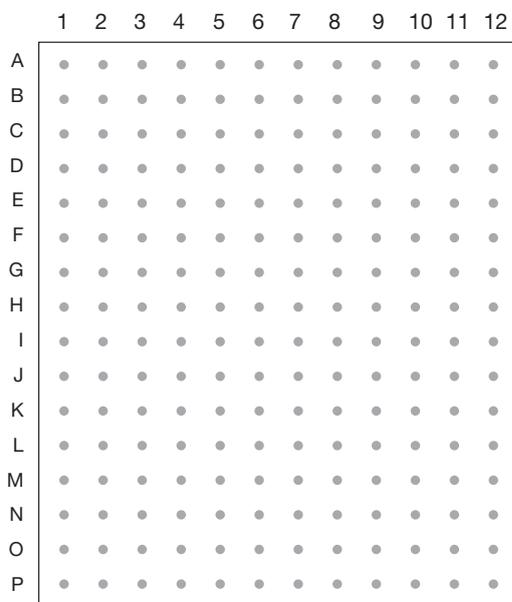
Data Tables and Observations

Part I. Introductory Activity—Testing Variables

Conditions	Observations
A. Rubber Band Placement	
B. Rubber Band Twisting	
C. Speed Bumps	

Part II. Design Challenge

Sketch a copy of the final maze design below, using either the portrait or landscape orientation.



Post-Lab Questions (Use a separate sheet of paper to answer the following questions.)

1. Did you choose a portrait or landscape orientation for the pegboard? Provide reasoning for your choice.
2. What ideas were part of the original prototype that once tested were found not to work as well as planned?
3. What improvements were made to the track design after testing and analyzing results?
4. What other strategies would you try if you were allowed to use additional materials?
5. Describe a practical application where the principles used in designing this track could be implemented.