

Study the effectiveness of simple machines with

Work-Easy

WEDNESDAY

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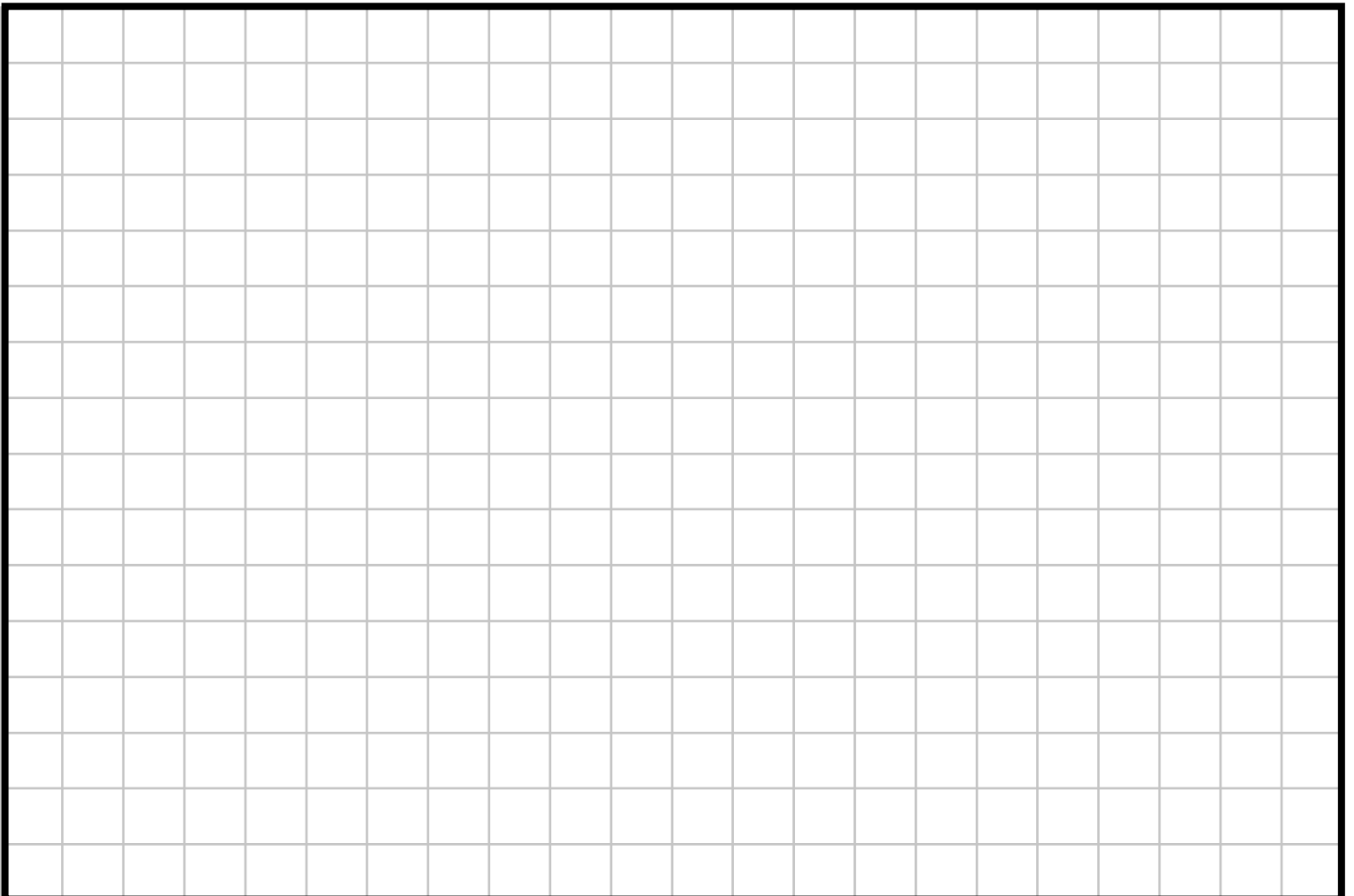
Hole in One - A Golf Ball's Journey

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Not all golf balls are destined for a hole in one on the golf course. Today you will engineer a different course for a golf ball - an obstacle course! Working with a group (or as a whole class) to design your course, you must follow all rules listed below. Decide what tools to use, which machines to incorporate and how to construct your course. Remember, creativity is key! Once your plan is developed, draw your course blueprint below. After you collect all of your supplies, you will build your obstacle course and explore how machines make work easier as the golf ball travels through your course.

Rules & Regulations:

- Once the golf ball begins its journey, you may not touch it.
- The golf ball must contact at least three different simple machines.
- The golf ball must travel at least ten feet.
- The golf ball must change vertical distance of at least two feet.
- The golf ball must complete its journey into a cup, can or similar container.
- The longer the journey, the better!



1. Use the chart below to identify each discuss the six types of simple machines.

Simple Machine	Description	Purpose	Example
Pulley			
Wedge			
Wheel & Axle			
Inclined Plane			
Screw			
Lever			

2. What is work?

3. How do simple machines help to reduce work?

4. Was your golf ball able to complete the obstacle course? Why or why not?

5. What could your team have done to improve the course?
