

DUCT TAPE CHALLENGE

Parachute - FOR EVENT LEADER

MATERIALS: Each **MORNING** team gets the following:

- 1 roll of brown duct tape
- 6 sheets of legal size paper
- 1 large paper clip (on the golf ball)
- 1 golf ball with an eye hook attached

MATERIALS: Each **AFTERNOON** team gets the following:

- 1 roll of white duct tape
- 3 sheets of legal size paper
- 1 toilet paper roll
- 1 large paper clip (on the golf ball)
- 1 golf ball with an eye hook attached

Teams may also bring something to write with, a stopwatch, 1 pair of scissors, and 1 ruler.

If a team discovers they are missing something, or something is damaged, they can request new supplies at the start of the event. It is THEIR responsibility to check materials before the competition begins. Their instruction sheet tells them to do so.

Teams also need a copy of the instruction sheet.

You need a way to time the **35 minute build time**.

At the end of 35 minutes, all teams should go to the second floor and 1 at a time on your count, release their parachute. Stop the timer when the first part of the device hits the floor.

TIEBREAKER: The team with lightest parachute (without the golf ball) wins.

Note: For the morning: the width of the duct tape is not all the same, but all the rolls are the same kind of tape. Pass out a roll to each competitor and tell them that there is extra with you if they need it. All extra brown duct tape should be taken to the duct tape art table at the end of the session.

For the afternoon, the supplies are different, but all the duct tape will be the same.



Duct Tape Challenge Museum Showcase – Parachute - Morning

School _____

Names: _____ , _____

You are responsible for making sure you have all the materials and that none are damaged. DO THIS NOW!

1 roll of brown duct tape

6 sheets of legal size paper

1 large paper clip (on the golf ball)

1 golf ball with an eye hook attached

TASK: Build a parachute that will slow the descent of a golf ball as much as possible. The golf ball has a hook that must attach to the paperclip you have been provided. **You will have 35 minutes to build.**

SCORING: The parachute that takes the longest to reach the ground wins.

TIEBREAKER: The team with the lightest parachute (without the golf ball attached) wins.

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Time (to nearest .01): _____ seconds

Mass of the parachute without the golf ball (tiebreaker): _____

FINAL SCORE: _____

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Duct Tape Challenge Museum Showcase – Parachute - Afternoon

School _____

Names: _____ , _____

You are responsible for making sure you have all the materials and that none are damaged. DO THIS NOW!

- 1 roll of white duct tape
- 3 sheets of legal size paper
- 1 toilet paper roll
- 1 large paper clip (on the golf ball)
- 1 golf ball with an eye hook attached

TASK: Build a parachute that will slow the descent of a golf ball as much as possible. The golf ball has a hook that must attach to the paperclip you have been provided. **You will have 35 minutes to build.**

SCORING: The parachute that takes the longest to reach the ground wins.

TIEBREAKER: The team with the lightest parachute (without the golf ball attached) wins.

FOR EVENT LEADER

Time (to nearest .01): _____ seconds

Mass of the parachute without the golf ball (tiebreaker): _____

FINAL SCORE: _____

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