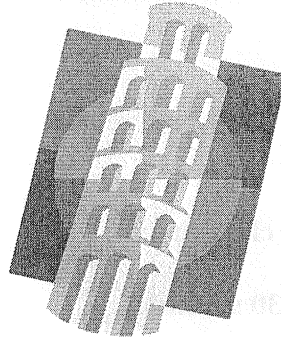


Applied Engineering---
Civil Engineering Unit

"Leaning Tower ofPEPSI??!"



Problem Statement—Using the card stock, create the tallest free standing structure that will support a full can (12oz.) of Soda (pop) at its top—It must support the can for a minimum o 30 seconds.

SPECIFICATIONS

Each student creates their own tower.

Only the provided cardstock, 1 sheet per student, and yellow or white glue may be used in the construction of the tower. No other materials can be used. Cardstock is approx. 9" x 22".

The tower must be a minimum of 18" tall to receive credit.

The soda can cannot be used as part of the support structure.

You can not impregnate (coat) the cardstock with glue.

The length of the structure will be measured vertically from the base of the structure to the TOP of the soda can.

The student will place the pop can at the top of the structure to begin the time phrase (30 seconds).

The structure has to be free standing, no string, tape or glue is allowed to attach the tower to the table top.

You will have 3 full class days to work on the tower.

You must provide a blueprint to the instructor before you begin your construction.

At least a 3 paragraph reflection is due, upon completion of your tower's testing.

Leaning Tower of PEPSI!

GRADING

Neatness of Tower—glue, joints, etc.	5 points _____
Originality of Design	5 points _____
Height of Tower—compared to classmates	5 points _____
Successful Tower (held can for 30 seconds)	10 points _____
Reflections (3 or more paragraphs about project)	5 points _____
Participation	10 points _____

TOTAL _____ / 40 points