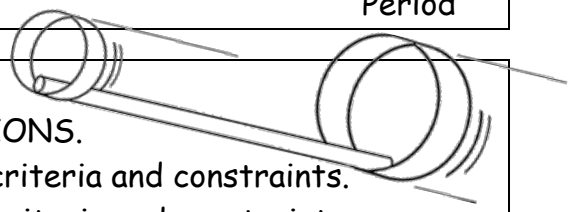
Engineering & Design: GENERATION & Evaluation of SOLUTIONS (S)

Hoop Glider: **Page 1 of 2** Name Period



SOLUTIONS (S)

1) GENERATE and DESCRIBE a variety of SOLUTIONS.
2) EVALUATE each SOLUTION in terms of data, criteria and constraints.
3) SELECT and defend a solution design, based on criteria and constraints.

Problem: **Produce a long distance Hoop Glider that transports pennies (1+).**

Solution 1 Description: _____

Drawing: Include close-up of connections (tape or paper clips).

Data should include dimensions (LXW) of straw and each hoop + Flight Distance

Straw	Front Loop	Back Loop	Flight Distance/Information			

Did this solution meet the criteria and constraints? Yes_ No_ Explain how or why not.

Criteria: _____

Constraints: _____

Solution 2 Description:_____

Drawing: Include close-up of connections (tape or paper clips).

Data should include Dimensions (LXW) of straw and each hoop + Flight Distance

Did this solution meet the criteria and constraints? Yes_ No_ Explain how or why not.

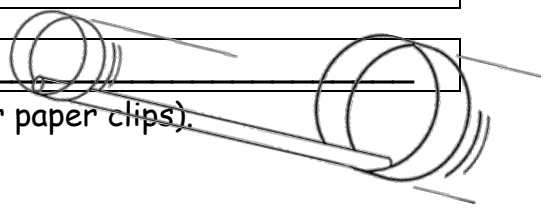
Criteria: _____

Constraints: _____

Engineering & Design: GENERATION & Evaluation of SOLUTIONS (S)

Hoop Glider **Page 2 of 2** Name Period

Solution 3 Description:_____



Drawing: Include close-up of connections (tape or paper clips).

Data should include Dimensions (LXW) of straw and each hoop + Flight Distance

Did this solution meet the criteria and constraints? Yes_ No_ Explain how or why not.

Criteria:_____

Constraints:_____

Selected Solution:

Solution #__Description:_____

Retest your selected SOLUTION

Defend your selected solution based on criteria and constraints.

_____

_____

_____

_____

_____

_____

_____