Engineering Virtual Learning

HS Intro to Engineering Design Lesson #7

April 14, 2020

Objective/Learning Target:
Students will use the "Sling It" machine
they designed and built to
learn about accuracy and precision.
(This is day 2 of a 4 day project.)

Bell-work:

Suppose you are playing "corn hole" at a tailgate party and you are the grand champion. Would you say you displayed great accuracy or precision?

Reflect in you engineers notebook.

This is day 2 of the **"Sling It" Machine** activity

Let's Get Started:

Yesterday you created a "Sling It" machine. Today we are going to test it for precision and accuracy.

https://www.youtube.com/watch?v=KEeSQvMCPLg

After watching the video, predict what your machine will do?

Learning Practice:

Test the Sling Machine you designed and built yesterday. First, set up a target similar to the one below. Second, launch 4 cotton balls and record the approximate landing spot on the target. Record this data in your engineers notebook.

| High Accuracy High Precision | Low Accuracy High Precision | High Accuracy Low Precision | Low Accuracy Low Precision |

Do you think your machine displays more accuracy or precision? Explain your answer.

1. Precision measures how close measurements are *to each other.*
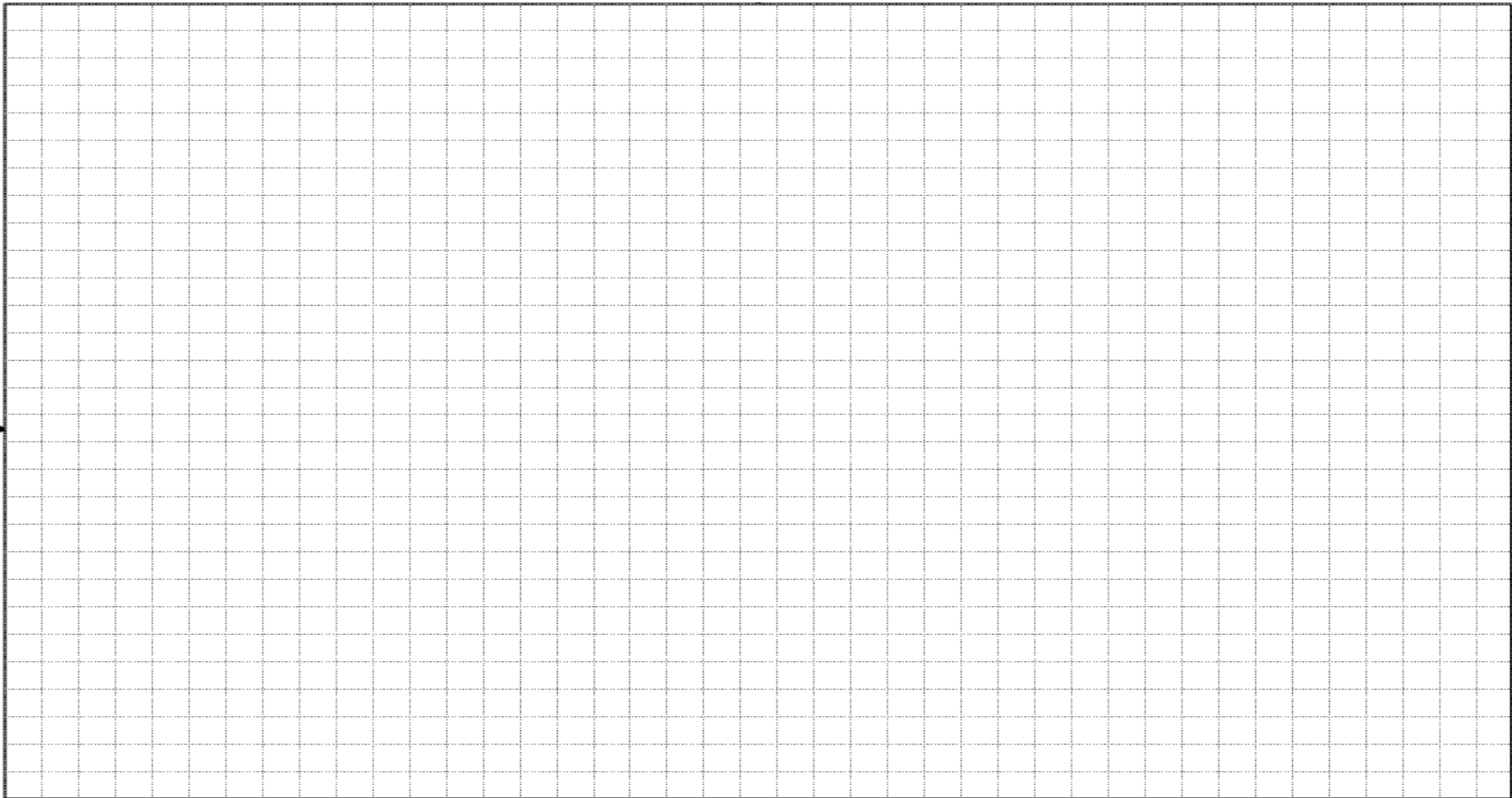2. Accuracy measures how close a result is to the truth.

Check For Understanding:

Do you think you would have won the corn hole tournament with your Sling Machine?

Explain a strategy that help.

Learning Resource Links:

https://www.youtube.com/watch?v=KEeSQvMCPLg

NAME	TITLE	DATE	PERIOD