

The New 3rd Grade Motion Assessment

Parent Overview

As an extension and enrichment of our **3rd Grade Motion Unit** in science students will be conducting a new district wide assessment. The goals for the assessment are:

- Students will synthesize knowledge of motion by developing appropriate conditions to recreate a given motion graph
- Students will evaluate data by interpreting a motion graph in order to explain factors that contribute to the shape of the graph

Here is a brief overview of each part of the assessment:

- **Part #1: Cooperative Exploration**
 - Students are asked to work in a group of 3 to create 6 different motion graphs using their bodies. Students must capture and replicate each graph using a real-time data collection tool (Go Motion sensor). Students will demonstrate understanding through writing at the conclusion of the exploration.
- **Part #2: Cooperative Application**
 - Students are asked to work in a group of 3 to recreate 6 different motion graphs using a track, a ball, and a real-time data collection tool (Go Motion sensor). Students will demonstrate understanding through writing at the conclusion of the exploration.
- **Part #3: Cooperative Conversation: Self Evaluation of Understanding**
 - Students use a conversational protocol to conduct a scientific conversation reviewing the key points of the assessment. At the conclusion of the conversation, students complete the self-evaluation component. (perhaps build in some presentation/demonstration/reproduction of a graph for the class)
- **Part #4: Individual Synthesis of Science Knowledge**
 - Students are asked to predict the curve of a graph from given data, work independently to create a graph in excel from the provided data and explain what happened to create the provided data points by identifying the similarities and differences between the predicted and actual graph.
- **Part #5: Individual Application of Science Knowledge**
 - Students are asked to work individually to answer science knowledge questions focused on the desired learning outcomes from the Motion unit.

To see our overview video for the assessment you can visit: <http://www.youtube.com/watch?v=i7uMMScpRBA>