Movement and Motion in the NFL

Field Trip/Video Conference Program



"Field Trip/Video Conference" Experience Outline:

10 minutes – Welcome/Mission/Vision/Values

30 minutes – Discussion/Videos on Movement, Motion and Force

10 minutes – Question and Answers

Instructions:

Please use the following lesson to help prepare your students for a more meaningful and interactive educational experience.



Subject: Science

Lesson Title: Movement and Motion in the NFL

Goals/Objectives:

- Students will:
 - Study the concepts of Movement, Motion and Force and how they relate to football.
 - Review how objects can be moved in a variety of ways such as straight, zigzag, circular and back and forth
 - Review how objects can be affected by pushing or pulling
 - Use technology to research and create

Next Generation Science Standard: Motion and Stability: Forces and Interactions

Methods/Procedures:

Prior to Program

- The teacher can use <u>NFL.com</u> and/or <u>ProFootballHOF.com</u> to locate examples of movement/motion/force.
- Students can demonstrate movement/motion/force by using a football.
- Students should compile a list of questions to be asked during the program.

During the Program

- Students will:
 - Learn about the Mission/Vision/Values of the Pro Football Hall of Fame.
 - Learn about movement/motion/force and how it applies to the game of football.
- Schools visiting the Pro Football Hall of Fame will be encouraged to look throughout the museum to find examples of how objects move.

After the Program

- Students will complete a *My Pro Football Hall of Fame Movement and Motion* booklet.
 - Students will write their own sentences on the bottom of each page.
 - These sentences can give additional details and/or definitions.
- Students can work individually or in teams to create slide shows, books, posters or dioramas.
- If able, the amount of change in the movement of an object depends on the mass of the object and the amount of force exerted.
 - Add photos or draw pictures of objects of varying mass or varying force applied.



• For example, a kicker's foot kicking the football would show the varying force on an object. Discuss what happens with a light kick as opposed to a hard kick.

Materials:

- <u>ProFootballHOF.com</u> and/or <u>NFL.com</u>
- My Pro Football Hall of Fame Movement and Motion Booklet
- Football/Objects that can be pushed or pulled
- Possible need for electronic devices

Assessment:

• Teacher-created rubric



My Pro Football Hall of Fame Movement and Motion Book



Name:

Date: _____





