



Oxford City Schools

# Proficiency Scale

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**GRADE LEVEL: 11      COURSE NAME: Physics**  
**MEASUREMENT TOPIC: Verify Conservation of Momentum**

**4**

In addition to Score 3, the student makes in-depth inferences and applications.

**3**

The student can:

- **Verify that conservation of momentum in systems by interpreting data and their relationship to energy.**
- **Qualitatively and quantitatively evaluate the relationship among: the forces acting on objects, the time of interactions, and the change in linear momentum of the objects.**

**2**

The student can:

- **Obtain, evaluate, and interpret data related to collisions and their effects on linear momentum.**
- **Differentiate between types of collisions.**
- **Evaluate the relationship between changes in momentum and impulse.**

**1**

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

**Key Vocabulary:**