



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 11 COURSE NAME: Physics
MEASUREMENT TOPIC: Explain Relationships Among Forces and Motion

4

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

3

The student can:

- **Explain the relationships among net force, mass, and acceleration**
 - **Conceptually**
 - **Mathematically**
 - **Graphically**

2

The student can:

- **Analyze pairs of equal and opposite forces between interacting bodies.**
- **Create free and fixed body diagrams to model all forces acting on a single object.**
- **Evaluate the effects of balanced and unbalanced forces on an object's motion.**
- **Identify types of forces within a given system.**

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: Force, inertia, motion, gravity, normal, friction, tension, applied