

# Physics Curriculum Map

Ms. Erdevig      Mr. Stefanovic

## **Fall Semester: Music, Motion, and Mechanics**

|   |                                   |         |           |
|---|-----------------------------------|---------|-----------|
| 1 | Music and Mathematics             | 1 week  | Aug-Sep   |
| 2 | The Solar System                  | 2 weeks | September |
| 3 | Galileo's New Science of Motion   | 2 weeks | Sep-Oct   |
| 4 | The Quantity of Motion (Momentum) | 2 weeks | October   |
| 5 | Vis Viva (Kinetic Energy)         | 2 weeks | October   |
| 6 | Potential Energy                  | 2 weeks | Oct-Nov   |
| 7 | Rotation and Orbits               | 2 weeks | Nov-Dec   |
| 8 | Mechanical Waves and Sound        | 2 weeks | December  |

## **Spring Semester: Everything is Made of Particles**

|    |                                       |         |          |
|----|---------------------------------------|---------|----------|
| 9  | Microscopic Motion and Temperature    | 2 weeks | January  |
| 10 | Electrons and Electric Current        | 2 weeks | Jan-Feb  |
| 11 | Photons and Atomic Energy Levels      | 2 weeks | February |
| 12 | Optics                                | 2 weeks | Feb-Mar  |
| 13 | Atoms and Their Parts                 | 2 weeks | March    |
| 14 | Relativity and Cosmology              | 2 weeks | Mar-Apr  |
| 15 | Introduction to Potentials and Fields | 2 weeks | April    |
| 16 | Introduction to Magnetism             | 2 weeks | Apr-May  |
| 17 | The Standard Model                    | 2 weeks | May      |