

# Montford Middle School

## Science Department

### Curriculum Topic Outlines

#### 8<sup>th</sup> Grade

##### Science & Societal Issues

- Political Issues that Science can Impact
- Explain how Political, Social, and Economic Concerns can Affect Science

##### Space

- Units of Distance in Space
- Size of Space and Objects within it
- Law of Universal Gravitation
- Properties of Stars
- Models of Solar System
- Technology used in Space Exploration

##### Matter

- Physical and Chemical Properties/Changes
- Mass vs. Weight, Density
- Elements and Atoms/Periodic Table
- Atomic Theory
- Properties of Compounds, Acids, Bases, and Salts
- Mixtures vs. Pure Substances
- Law of Conservation of Mass

##### Life Processes

- Basic needs for Life: Carbon Cycle, Photosynthesis, and Cellular Respiration