**Unit Essential Question:** *How do our bodies produce and use the energy needed to move objects?*

**Overall Unit – All Tasks**

* Unit 1, Task Cards Student Version, Lift-Off and Tasks 1 through 5
* Culminating Project Student Task Card
* Project Organizer
* Projector with Audio (for video or images, whenever needed)

**Lift-Off Task (2 days, based on 45-minute periods)**

Per Student

* Task Card Student Version: Lift-Off
* Post-Its (Optional)
* Task Card Student Version: Culminating Project
* Project Organizer

Per Group

* Poster paper and markers

Whole Class

* Kickball(s)
* Poster paper and markers
* \*See Instructions in Lift-Off for other optional materials to use for the class concept map

**Task 1 (3.5 days, based on 45-minute periods)**

Per Student

* Task Card Student Version: Task 1
* Project Organizer

Per Group

* Books or other items that can be stacked
* Ball/Marble
* Pipe insulation, cut open to make a track
* 20 pennies

**Task 2 (4.5 days, based on 45-minute periods)**

Per Student

* Task Card Student Version: Task 2
* Project Organizer
* Nervous System Definition Cards and Scissors

Per Pair

* Ruler
* Optional: Reflex Hammer

Per Group

* Nervous System Video and Simulation Instructions
* Computers (if showing *Explore* video as a group)
* Optional: Role Cards for Nervous System Simulation

Whole Class

* Projector/Speakers (if showing *Explore* video as a whole class)

**Task 3 (4 days, based on 45-minute periods)**

Per Student

* Task Card Student Version: Task 3
* Project Organizer
* Article – *Subsystems of the Body*

Per Group

* 4 blank pieces of paper
* Timer – phone, watch, stopwatch
* Poster Paper
* Markers

Whole Class

* Projector and Activity Photos

**Task 4 (3.5 days, based on 45-minute periods)**

Per Student

* Task Card Student Version: Task 4
* Project Organizer

Per Station

* *Microscope Station* Cards (2-3 per station)

**Task 5 (4 days)**

Per Student

* Task Card Student Version: Task 5
* Project Organizer

Per Group

* *Cell Definition Cards,* cut
* *Cell Analogy*

**Culminating Project (9 days, based on 45-minute periods)**

Presentation/Video

* Device with Video Recording
* Video Editing/Creation Software (e.g. iMovie, Sparkol VideoScribe, PowToons, etc.)
* Props (e.g. ball)
* Poster Paper
* Color pencils/markers or computer graphics

Brochure

* Blank Paper or Computer Program
* Color pencils/markers or computer graphics