**Physical Science Chapter 11 and 12**

*Force and Laws of Motion*

**Essential Questions**

How do I use forces in my daily life?

Does gravity have the same effect on all objects?

How are Newton’s laws of motion applied in my daily life?

**Key Terms**

Force

Net force

Balanced force

Unbalanced force

Friction

Static friction

Sliding friction

Air resistance

Inertia

Gravity

Weight

Centripetal force

Momentum

Law of conservation of momentum

**Lab/Project Work**

Friction Lab

Newton’s 1st Reinforcement Activity

Ball Lab

Colliding Objects Lab

**Book reference**

Motion and Force pgs. 380-385

Newton’s 1st law and 2nd law pgs. 394 -402

Gravity pgs. 403-411

Newton’s 3rd law pgs. 412 – 417

Momentum pgs. 414-417

**Assessments**

You can expect 1-2 quizzes

**Calendar**

9/23 **Monday**

* Force Notes
* Friction Pre-lab

9/24 **Tuesday**

* Friction Lab

9/25 **Wednesday**

* PLAN test

9/26 **Thursday**

* Finish friction lab
* Go over Lab Results
* Motion crossword and worksheet

9/27 **Friday**

* NO SCHOOL

9/30 **Monday**

* Discussion Newton’s 1st Law
* Inertia demonstrations
* HWK: Reading guide

10/1 **Tuesday**

* Smash Lab Video and Questions

10/2 **Wednesday**

* Student inertia presentations
* Reading Guide review

10/3 **Thursday**

* Quest Review

10/4 **Friday**

* “Quest” (Quiz-Test): Force, Friction and Newton’s 1st
* Reading guide Newton’s 2nd Law

10/7 **Monday**

* Newton’s 2nd Notes/ Discussion

10/8 **Tuesday**

* HW: F= MA Practice Problems Wkst
* Review HW Problems
* Ball Lab

10/9 **Wednesday**

* Finish Ball Lab - Due
* Quiz: Newton’s 2nd Law – Force reinforcement.
* HWK: Reading Guide Gravity and Newton’s 3rd Law

10/10 **Thursday**

* Gravity Notes
* Weight and Mass Calculations

10/11 **Friday**

* 4.3 Newton’s 3rd Law Notes
* Discuss Momentum
* Momentum calculations

10/14 **Monday**

* 4.2 and 4.3 reading guide due
* Colliding Objects Lab

10/15 **Tuesday**

* Discuss-Lab

10/16 **Wednesday**

* Station Review

10/17 **Thursday**

* **Test Ch. 3.3, and 4**

**Force/Motion/ Newton’s Laws**