|  |  |
| --- | --- |
| August |  |
|  |  |
| 2018Physics | Macintosh HD:Applications:Microsoft Office 2011:Office:Media:Clipart:Photos.localized:j0149014.jpg |
|  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  |  |  | 1 | 2 | 3 | 4 |
|  |  |  |  |  |  |  |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|  |  |  |  |  |  |  |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|  |  |  | Teacher Inservice | Teacher Inservice | Teacher Inservice |  |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|  | First Day of Classes:-Course Intro. | -Course Syllabus-Notecard STEM activity | -Lab Safety overview-Scientific Method in Physics-Spaghetti Lab | -Spaghetti lab continued: Continue measurements | -Finish Spaghetti Lab questions-Calculating for larger objects using data |  |
| 26 | 27 | 28 | 29 | 30 | 31 |  |
|  | -Supporting a student with Spaghetti-Begin Units & Metrics | -Metric & other unit conversions-Sig figures-Applying dim. analysis | Begin Measurement Lab:-Applying metrics & sig figs |  | Measurement Lab:-Collect Data |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| September |  |
|  |  |
| 2018Physics |  |
|  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  |  |  |  |  |  | 1 |
|  |  |  |  |  |  |  |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  | Labor Day Holiday | -Finish Measurement Lab-Metric & Units Practice Problems | -Metrics & Units Review Units Quiz-Begin Motion Simple linear-Lab Report Guidelines |  | -Using Probewear to collect data-Velocity & Acceleration Lab Design |  |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|  | -Velocity & Acc. Lab: Collect Data Analyze Data | -Finish Vel. & Acc. Lab-Lab Report | -Applying Kinematic Equations-Freely Falling Objects |  | -Applying Kinematics Equations: Chapter 2 Problems |  |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
|  | -Reflex Lab: Using “g” to calculate reaction time | -Finish Reflex lab-Work on chapter 2 problems | -Kinematics Review Day: Whiteboard sharing activity |  | Chapter 2 Test: Linear motion (1D Kinematics) |  |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|  | -Finish Ch 2 Test (if needed)-Begin Vectors Compass directions & angles | -Vector Addition- Begin Vector Treasure Hunt:(Vector Cards) | -Vector Treasure Hunt: Finish Cards Map |  | -Finish Vector Treasure Hunt: Finding the treasure |  |
| 30 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| October |  |
|  |  |
| 2018Physics | Macintosh HD:Applications:Microsoft Office 2011:Office:Media:Clipart:Photos.localized:j0178460.jpg |
|  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | 1 | 2 | 3 | 4 | 5 | 6 |
|  | Begin 2D motion:-Horizontal projectiles-Ch. 3 problems | -Horizontal Projectile Lab: \*Making a  Basket | -Finish horizontal projectile lab-Work on Ch 3 problems |  | Angled projectiles:-Predicting range-Deriving the big equation |  |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|  | Problem-solving with angled projectiles | -Angles Projectile Mini-Lab-Ch. 3 Problems | Angled projectile mini lab:-Test calcs |  | -Relative Motion-Review 2D motion |  |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|  | -Angled Projectile motion-Problem solving practice | -Review Vectors & 2D motion-Angled projectile demo | Quiz:-Vectors & 2D motionNewton’s Laws:-Drawing free body diagrams |  | Teacher Inservice |  |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
|  | Forces & Newton’s Laws:-Theory and practice-Newton’s Laws examples | Tricks with Newton’s Laws mini lab:-Applying the magic | -Using FBD’s with Newton’s 2nd Law-Begin *Young Frankenstein* & Forces |  | Teacher Inservice |  |
| 28 | 29 | 30 | 31 |  |  |  |
|  | -Using FBD’s with Newton’s 2nd Law-Finish *Young Frankenstein* & Forces | Applying Newton’s laws:-Balanced & unbalanced forces | -Force Types Lab:\*Analyzing different types of forces |  |  |  |



|  |
| --- |
| November |
|  |
| 2018Physics |
|  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  |  |  |  | 1 | 2 | 3 |
|  |  |  |  |  | -Finish Force Types Lab-Newton’s laws problems |  |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  | -Friction Forces\*What is ?-Writing Newton’s 2nd Law equations | Darwin Award physics:-Analyzing events with FBD’s | Physics Practice problems:-Applying Newton’s 2nd law |  | Complex FBD’s:-Inclines-Tension at angles |  |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|  | Professional Development | Friction Lab:-Collecting data-Begin Data analysis | Friction lab:-Finish Data analysis-Complete lab reports |  | Boat project design lab:-Cardboard boat challenge |  |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|  | -Finish boat blueprints-Begin boat construction | Boat construction | Begin Boat testing | Thanksgiving Holiday | Thanksgiving Holiday |  |
| 25 | 26 | 27 | 28 | 29 | 30 |  |
|  | -Finish Boat Testing-Newton’s laws review | -Finish Newton’s laws review-Finish practice questions | -Newton’s laws Unit Exam-Begin Work & Energy |  | Work & Energy:-Energy types |  |

|  |
| --- |
| December |
|  |
| 2018Physics |
|  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|  |  |  |  |  |  | 1 |
|  |  |  |  |  |  |  |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  | Applying energy concepts:-Roller coaster design & calculations | Work & Energy theorem:-Problem solving techniques-Finish coasters | Intro to Simple Machines:-Types-Begin simple machines lab |  | -Finish Simple Machines Lab-Work & Energy problems |  |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|  | -Finish Work & Energy problems-Review for quiz | -Work & Energy Quiz-Introduction to toy project\*toy selection | Toy Project:-Engineering schematics-Work on display |  | -Finish toy project-Energy measurements |  |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
|  | -Review for Semester Exam | -Review for Semester Exam | Semester Exams (1, 2, 3) | Semester Exams (4, 5, 6) | Teacher Work Day |  |
| 23 | 24 | 25 | 26 | 27 | 28 | 30 |
|  | WINTER BREAK | WINTER BREAK | WINTER BREAK | WINTER BREAK | WINTER BREAK |  |