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| January |  |
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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
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| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|  | Boat project design lab:  -Archimedes principle  -Cardboard boat challenge | -Finish boat blueprints  -Begin boat construction |  | Boat construction | Begin Boat testing |  |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|  | \*Finish Boat Testing  \*Work & Energy:  -Energy types | Applying energy concepts:  -Roller coaster design & calculations |  | Work & Energy theorem:  -Problem solving techniques  -Finish coasters | Intro to Simple Machines:  -Types  -Begin simple machines lab |  |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|  | **MLK Holiday** | -Finish Simple Machines Lab  -Work & Energy problems |  | -Finish Work & Energy problems  -Review for quiz | -Work & Energy Quiz  -Intro to Egg Bungee project |  |
| 26 | 27 | 28 | 29 | 30 | 31 |  |
|  | Egg Bungee:  -Design phase  -Testing rubber bands  -Energy calcs | Egg Bungee:  -Finish calcs  -Finish harness  & bungees  -Begin small scale testing |  | Egg Bungee:  -Official testing | Egg Bungee:  -Official testing |  |

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| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|  | Begin Momentum:  -Collision types | \*Impulse &  Collisions  \*Momentum  cartoons | Momentum Pre-lab:  -Small scale  collisions |  | Momentum Lab:  -Conservation of p & KE |  |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|  | Momentum Lab:  -Conservation of p & KE | Momentum Lab:  -Data  analysis | Review Momentum:  -Practice  problems | Parent-Teacher Conferences (4,5,6 | **Inservice Day** |  |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
|  | **President’s Day** | Momentum Lab:  -Part III (creating a crumple zone) |  | -Momentum Practice questions  -Finish lab reports | Impulse & Momentum review:  -Practice quiz |  |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|  | Impulse & Momentum unit exam | Begin Simple Harmonic Motion:  -Examples  -Period VS Frequency |  | SHM Lab:  - Factors that affect period  -Using photogate/motion detector to get period | SHM Lab:  - Collect Data |  |

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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  | SHM Lab:  -Analyze Data  -Finish lab reports | SHM Problem Solving |  | SHM Review & Quiz | **Teacher Work Day** |  |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|  | **Spring Break** | **Spring Break** | **Spring Break** | **Spring Break** | **Spring Break** |  |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|  | Begin Waves  - Wave speed Inquiry lab | -Continue Wave speed Inquiry lab  -Properties of Waves |  | Applying the wave equation  -Ch 13 problems | \*More Wave Properties:  -Doppler effect  -Interference  \*Work on Ch 13 problems |  |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|  | Sound Waves Lab:  -Observing Waves  -Resonance | \*Finish Sound Waves Lab:  - Beats & Interference  \*Finish Ch 13 Problems |  | \*Finish Sound mini lab  \*Finish Wave Basics | Sound Waves Practice exercises:  -Doppler effect  -Sound intensity |  |
| 29 | 30 | 31 |  |  |  |  |
|  | \*Ch 13 Review  (Kahoot?)  \*Review of SHM & Sound waves | \*SHM & Sound Waves test  \*Intro. to properties of light |  |  |  |  |

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|  |  |  |  | Laser Target Shooting Lab  -Begin Planning | Laser Target Shooting Lab  -Begin Testing |  |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|  | Finish Laser Target Shooting Lab  -Simple Ray diagrams | Refraction:  -Snell’s law  -Lens Ray Diagrams |  | Refraction Lab:  -Real image formation  - Applying Snell’s Law (speed of light) | Refraction Lab:  -Real image formation  - Applying Snell’s Law |  |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|  | Review Properties of light | -Light & Optics Quiz  -Begin "Contact" |  | "Contact" movie & questions | Begin Electric Forces:  - Coulomb’s law  - Static electricity |  |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|  | Begin Electrostatics:  -Static electricity Lab | Finish Electrostatics Lab |  | \*Begin circuits:  -reading schematics  -Ohm’s law | \*Circuit practice questions |  |
| 26 | 27 | 28 | 29 | 30 |  |  |
|  | Basics of circuit building  - Wiring  - Using current & voltage meters | Simple Circuits lab:  -Series & Parallel circuits |  | Simple Circuits lab:  -Series & Parallel circuits |  |  |

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|  |  |  |  |  | Finish DC Circuit problem |  |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|  | Using a Breadboard:  -Simple circuit construction | Breadboard \* LEDs lab |  | -Finish Breadboard lab  -Review circuits | Circuits Quiz |  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|  | Introduce Rube Goldberg project | Rube Goldberg construction |  | Rube Goldberg construction & Testing | -Final Rube Goldberg Test  -Begin Final Exam Reviews |  |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|  | Finals Review | Finals Review | Finals (1, 2, 3) | Finals (4, 5, 6) | **Teacher Work Day** |  |
| 24/31 | 25 | 26 | 27 | 28 | 29 | 30 |
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