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| January |  |
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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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