



Name: \_\_\_\_\_

Fundamentals of Chemistry & Physics: **Week 21 HOMEWORK CHECKLIST**

ALL GRADES

*Due on February 27th*

**\*\*\*\*\*Checklist must be signed by a parent to confirm that the homework was completed throughout the week to receive homework credit. Ten points will be taken off if the homework is checked off but is missing a signature.**

\_\_\_\_\_ **(10 points) Reading Lesson 17: Working Smarter, Not Harder!**

The reading lesson was handed out in class and should be in the front of your binder. Read the lesson or listen to the audio version posted on the class webpage as you read along and take notes. The lessons are designed to encourage note taking skills as you read. It is not required for 3rd & 4th grades, but it is encouraged to begin practicing note taking skills by neatly highlighting or underlining the main points in the lesson as you are reading. This is a study skill that will help you connect with what you are reading, become an independent learner, and help you to retain the information. 5th & 6th graders should make this a weekly habit. **I HIGHLY RECOMMEND THAT THE READING LESSONS BE SPLIT INTO TWO SESSIONS IF POSSIBLE SO THE INFORMATION IS BETTER RETAINED.**

\_\_\_\_\_ **(10 points) Recall & Connect Questions (To be turned in for grading)**

After reading lesson 17, take out page 101/102 of your reading lesson and answer the questions **based on what you've read.** It is acceptable for third graders (or others who need the help) to dictate their answers to a parent and have the parent write it down for them. Please keep it in their own words and have them try to write a key word or two to work towards independence. You will turn this in on February 27th along with this completed homework checklist. **Special instructions: 3rd graders are to answer any 4 out of the 16 questions, 4th graders are to answer any 6 out of the 16 questions, 5th graders are to answer any 11 out of the 16 questions, and 6th graders are to answer all 16.**

\_\_\_\_\_ **(20 points) For Reinforcement and Review—Mechanical Energy & Simple Machines**

Read lesson 17, then watch the following videos to reinforce and review what you have learned. I know there are a lot of videos this week, but they are all excellent in reinforcing the reading lesson and showing simple machines at work, which means you will know the material really well by the time you are done. Break up watching them over the course of a few days instead of all at once.

**What is Energy (Miacademy):** <https://www.youtube.com/watch?v=JgXexfm4wcQ>

**What is a Simple Machine? Levers (Miacademy):** <https://www.youtube.com/watch?v=1WDfgZvs44A&t=7s>

**Simple Machines: Wheels and Pulleys (Miacademy):** <https://www.youtube.com/watch?v=t5zJ80OWLuk&t=5s>

**Simple Machines: Inclined Planes, Wedges, & Screws (Miacademy):** <https://www.youtube.com/watch?v=nITX8rj98p8&t=5s>

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\_\_\_\_\_ **(10 points) Simple Machines Scavenger Hunt (FOR A GRADE)**

Go on a scavenger hunt in your home and/or neighborhood to find examples of simple machines. Record the simple machines you find on the corresponding titled page in your lab notebook (pages 82-88). These must be examples that YOU find, so tell where you found them. You can sketch the machine or write it. 3rd graders need to find 2 different simple machines, 4th graders need to find 3 different simple machines, 5th graders find 4-5 simple machines, & 6th graders find one of each.

\_\_\_\_\_ **(5 points) Start Studying for Quarter 3 Test**

Your quarter 3 test will be sent home with you next week to complete in the week before being officially on spring break. Please spend at least 5-10 minutes reviewing pages 56-88 of your lab notebook to review the concepts covered in quarter 3. You can also look over your recall and connect questions on physics. A Jeopardy-style game will be posted for next week's checklist to use as a study aid before taking the test.

\_\_\_\_\_ **(EXTRA CREDIT OPPORTUNITY) Cartoon Simple Machines**

**WITH THE HELP OF A PARENT** find a Looney Tunes coyote and roadrunner episode to watch either on YouTube or on a streaming service that demonstrates the use of simple machines. Tom and Jerry would also work if you are allowed to watch. Again, you are only being asked to watch one! As you watch the episode find one example of a simple or compound machine used by the coyote or other character that was not shown in class. **To earn up to 5 extra homework points, record your example from the cartoon on page 89 of your lab notebook by sketching out the machine, labeling the parts, and then explain how it is designed to make work easier or accomplish a task (whether it works for the cartoon character or not).** If a lever is involved be sure to label the fulcrum, the effort, and the load. Many times, with the coyote, the plan is sketched out on the screen.

\_\_\_\_\_ **(5 points) Weekly Housekeeping!**

Make sure your current checklist **is signed** and in the front of your binder ready to turn in. File your papers where they go and check your supplies to make sure you have several working glue sticks, sharpened pencils, your colored Papermate Flair markers, and your **lab notebook!** **Lab Notebooks will be collected next week for a lab notebook check. Make sure they are up to date!**

**Parent Signature:** \_\_\_\_\_

Homework Completion Grade \_\_\_\_\_/60 points