



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

Fundamentals of Chemistry & Physics: **Week 18 HOMEWORK CHECKLIST**

ALL GRADES

*Due on February 6th*

**\*\*\*\*\*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 13: The Forces Are Always With You! (Laws of Motion Review)**

The reading lesson was handed out in class and should be in the front of your binder. There are no recall and connect questions assigned for this reading lesson. Use this as a review of what you have learned so far about Newton's Three Laws of Motion. **Simply Listen to the audio version posted on the class webpage as you follow along with the printout.**

\_\_\_\_\_ **(10 points) Reading Lesson 14: 3-2-1 Contact!**

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 14, take out page 83/84 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 6th along with this completed homework checklist. **Special instructions: 3rd & 4th grades answer question 1 and three other questions on page 83. For question 8, label at least six out of the ten contact force examples. 5th and 6th grade should answer all questions.**

\_\_\_\_\_ **(5 points) For Reinforcement and Review—Contact Force of Friction**

After you have read lesson 14, watch the following video to reinforce and review what you have learned about friction.

**Forces-Friction (Miacademy):** <https://www.youtube.com/watch?v=KPbMpGyV7Ps>

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\_\_\_\_\_ **(10 points) Catapult & Parachute-Physics at Play**

\_\_\_\_\_ Construct a catapult using the supplies given in class. They should be in a brown paper sack. A weblink is provided on the class webpage with instructions to follow, or you can modify it to your liking. After it is completed, **WITH CAUTION**, test out different things to launch from your catapult and think about the three laws of motion that you learned. Do objects with different mass launch differently or need a different force applied? **5th and 6th graders are to record how each of the three laws apply in using the catapult on page 68 of your lab notebook. ALL STUDENTS, please bring your catapults to class next week to share with the class. We will spend a few minutes discussing what items were launched and results.**

\_\_\_\_\_ Spend some time playing with the parachute toy you received in class. As you play with it think about the frictional force of drag and how it applies to the toy. Try dropping it from different heights. Does it make a difference? Try this: Is it possible to launch your parachute toy using the catapult????

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

Make sure your current checklist is signed and in the front of your binder ready to turn in, as well as your lesson 14 recall and connect questions. File your reading lessons behind the reading lesson tab and your checked homework checklists behind the homework checklist tab. Check your supplies to make sure you have several working glue sticks, sharpened pencils, your colored Papermate Flair markers (or similar), and as always, your lab notebook!

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

Homework Completion Grade \_\_\_\_\_/50 points