



Name: _____

Fundamentals of Chemistry and Physics: **Week 23 HOMEWORK CHECKLIST**

3rd & 4th Grades

Due on March 24th

_____ (2 points) **Videos for Introduction to Electrical Energy**

What is Electricity?: <https://www.youtube.com/watch?v=jpbD0VEN0UE>

Study Jams Electricity: <http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/electricity.htm>

_____ (1 point) **Add Archimedes to your lab notebook**

Add the Archimedes page that you created for last week's checklist to **page 74 for 3rd grade (and page 76 for 4th grade) of your lab notebook**. Will be graded at next lab notebook check.

_____ (3 points) **Lab Notebook Page and videos for Rube Goldberg (FOR A GRADE)**

_____ Rube Goldberg was not a scientist; he was a cartoonist that is famous for drawing complicated "machines" that do very simple tasks. They include everyday objects and lots of simple machines. Do some research about Rube Goldberg and why his name is in the dictionary. **On page 81 for 3rd grade (page 83 for 4th grade) of your lab notebook, design a page all about Rube Goldberg. Requirements: Title the page with his name. Include at least one visual, such as Rube's picture, one of his cartoons, or a sketch of your own Rube Goldberg machine. Third graders should have at least three total facts and fourth graders should have at least four total facts.** They can simply be words of key ideas and do not have to be complete sentences. Watch the two videos to help start your research.

_____ Watch the following videos:

All About Rube Goldberg: <https://www.youtube.com/watch?v=BZh93OrKssw>

Sesame Street Rube Goldberg Machines: <https://www.youtube.com/watch?v=pMpmi5YMcg>

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_____ **(Extra Credit Opportunity) Build a Rube Goldberg Machine**

Building a Rube Goldberg machine can be challenging, yet loads of fun! Did you know there are even huge Rube Goldberg competitions with teams that drive their inventions in from all over the country? Try building one for yourself! For **five extra credit points**, your machine must have at least five steps towards its main goal. Send me a video or picture to receive the points. It doesn't have to be exactly successful, but must come close. Watch these videos to inspire you! (HOWEVER, you may not use anything dangerous for your machine...)

The Dresser: <https://www.youtube.com/watch?v=UFSn8lwGQfw>

The Lunch Feeder: <https://www.youtube.com/watch?v=4jruLdkHhi4>

World's Largest: https://www.youtube.com/watch?v=mTjJzF_Oaow

_____ **(1 point) Organize your Science Binder**

Remember: Being organized helps with your learning!

_____ **(1 point) Star Wars Wacky Races Final Project Guidelines**

Final project guidelines will be posted on March 7th. Be sure to check it out so you can start gathering your materials and brainstorming for ideas!

_____ **(1 point) Have a Wonderful and Safe Spring Break!**

Parent Signature: _____

Homework Completion Grade _____/9 points