Electronic copies of all assignments are posted on Mrs. McLean’s website <https://hchs.hcbe.net/stacy-mclean>. Go to “Documents” and click on “Physical Science”. Select the appropriate folder for the week. Assignments are also posted on Google Classroom. To access Google Classroom, go to [www.hcbe.net](http://www.hcbe.net) and click on the SSO Portal. Type in your computer login and password, then select the Google Classroom App.

**Physical Science: Radioactivity Unit Lessons and Activities**

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| --- | --- | --- | --- | --- | --- |
|  | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| Topic | **Radioactive Decay** | **Decay Equations** | **Half Life** | **Half Life** | **Unit Review** |
| Lesson | Review the types of radioactive decay with the following:   * YouTube video: [GCSE Physics - Nuclear Decay Equations #34](https://www.youtube.com/watch?v=CaYoDxWxww8) * Teacher Powerpoint notes: [Radioactive Decay Equations (1).pptx](https://studenthcbe-my.sharepoint.com/:p:/g/personal/stacy_mclean_hcbe_net/EUxAPs2IFW1HrGRlvK0MkUQBqaV8Cj0TtOsWeXIe4sSCXA?e=uxcdNa) | Use the video and Powerpoint from Day 1 to complete the Nuclear Brochure (see below) | Review the description of Half Life with this link:  [What is meant by half life?](https://atomic.lindahall.org/what-is-meant-by-half-life.html) | Review Half Life calculations with the following:   * YouTube video: [Half Life Calculations](https://www.youtube.com/watch?v=qNgcI91VrcU) * Teacher Powerpoint notes: [Half Life Notes.pptx](https://studenthcbe-my.sharepoint.com/:p:/g/personal/stacy_mclean_hcbe_net/EaKNR3cjRz1DqrQvY5c_xaABVR5uqG3GXXPwA409VMcviw?e=o1Y1LC) | Check out this video on the most radioactive place in the world!  [Veritasium: The Most Radioactive Place in the World](https://www.youtube.com/watch?v=TRL7o2kPqw0) |
| Activity | Complete the practice on the second to last slide. Check your answers on the last slide. | Open the Nuclear Brochure [Nuclear Reactions Brochure.docx](https://studenthcbe-my.sharepoint.com/:w:/g/personal/stacy_mclean_hcbe_net/ERtOT86Xw6FDj7d3e9ms1EkBUjeAuVmGkGnVPYacsSdd7g?e=B28WCd)  Complete the pages of the brochure using the checklist at the bottom of each page. You may print it out and handwrite/draw or download it and type/save. | Complete the Half Life Simulation Lab using the link below.  [Half Life of M&Ms.docx](https://studenthcbe-my.sharepoint.com/:w:/g/personal/stacy_mclean_hcbe_net/EWu6adubaGpBipKMhzqp7g4BH2tvARVAPWEj2JfcXp7B8g?e=dflbho)  *For this lab, you will need 50 pennies, M&M’s, Skittles, or some other item that has 2 opposite sides. You can make your own by cutting a piece of paper into 50 pieces and mark one side with an “X”. You will also need 50 unmarked items like beads, paperclips, beans, etc.* | Complete the Half Life Practice Problems [HalflifePractice.Problems.docx](https://studenthcbe-my.sharepoint.com/:w:/g/personal/stacy_mclean_hcbe_net/EXjohWT8HM5Itmrb5mY8PUMBY69GbkayYVWLJEKeAWW2jg?e=AdUNw9)  Use the key posted on Mrs. McLean’s page to check your answers when you are finished [Half Life Practice KEY](https://studenthcbe-my.sharepoint.com/:b:/g/personal/stacy_mclean_hcbe_net/EaviY9fE7A1NsHt7KhWpQQIBodsZAItYa3dbsGCNlA1vSw?e=iopPAL) | Go to Study Island and complete the Radioactivity Lesson and Practice on your Physical Science page.  [www.studyisland.com](http://www.studyisland.com)  username: first.last@hchs  password: student |