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| **Lesson Description: Lesson 4** **My Weather Journal***This lesson will look at students gathering data, creating and publishing a one week weather journal on their iPad tablets with photos.* |
| **Outcomes** Steering_wheel_ship_1.png | **Resources** screencast.jpg | **Procedure** resources.png | **Assessments** bigstock-A-yellow-folder-with-the-label-58273664.jpg |
| **Grade:** *5***Subject:** *Science***Unit:** *Predicting the Weather* |
| **Driving Question For Weather PBL:** *How do we predict the Weather?* |
| Steering_wheel_ship_1.png**Curriculum Outcomes:** **Science:**-Students using correct names of weather instruments, construct and use instruments to record temperature, wind speed, wind direction, and precipitation (104-7, 204-8, 205-4, 205-10, 205-7, 300-13) -identify, classify, and compare clouds (104-4, 206-1)**Technology Integration:**BOC 6.1 (relates to 3.1) safely use school media and computer equipment, and software to support their learning, with growing independence BOC 6.2 (relates to 3.2) use and create information texts in a range of media, using specialized text features of those media to support the communication, with teacher assistance**English Language Arts:** 8.1 use a range of strategies in writing and other ways of representing to:– record, develop, and reflect on ideas, attitudes, and opinions – compare their own thoughts and beliefs to those of others – describe feelings, reactions, values, and attitudes – record and reflect on experiences and their responses to them 8.2 expand appropriate note-making strategies from a growing repertoire (e.g., outlines, charts, diagrams) 8.3 make deliberate language choices, appropriate to purpose, audience, and form, to enhance meaning and achieve interesting effects in imaginative writing and other ways of representing10.3 use technology with increasing proficiency to create, revise, edit, and publish texts |
| **Expected Time: 1 Week**  |
| screencast.jpg**Resources:** **-** Screencast:  “My Weather Journal” - [Weather Journal Template (PDF)](http://eisnorgrade5.weebly.com/uploads/2/5/1/5/25151059/weather_journal_page.pdf)- [Weather Journal Template (MS Word)](http://eisnorgrade5.weebly.com/uploads/2/5/1/5/25151059/weather_journal_page_2.docx) - Eyewitness Video “Weather” Note outline for students. - [Cloud Types Review](http://eisnorgrade5.weebly.com/types-of-clouds.html) |
| resources.png**Lesson Procedure**  | **21st century skills** |
|  | My Weather Journal Intro **Lesson 4: Introduction to journal lesson (10 Minutes)**Teacher does (I Do)Introduce the lesson: In the previous evening’s homework the students should have watched the screencast “My Weather Journal.” Guide them through the process live on the SMART Board and have them make seven copies of the Weather Journal on their tablets and save them in either Pages or MS Word so that they can be edited on a daily basis.With the “My Weather Journal” activity students will create a seven day weather journal using a PDF template uploaded to their tablets through the [Showbie App](https://appsto.re/ca/Lu4TG.i) or edited using [Claro](https://appsto.re/ca/ci2r8.i). (I have embedded links for each of these apps to the Apple App Store. Showbie – Paperless Classroom by Showbie Inc is free for students but costs for the teacher while ClaroSpeak+PDF Bundle - Read, Write, Study, Work by Claro Software Limited costs for both and is currently a $10 app purchase.) Both Apps allow you to edit PDF’s and Showbie allows you to pass in work as a paperless classroom. Using the weather template provided and your cameras built into your iPad tablets students will create a weather journal by recording daily changes in weather and how that weather affects their lives.My Weather Journal Student Activity **Lesson 4: Weather Observations (15 Minutes)**Students will go outside and make weather observations as a class. They will then take their tablets and Weather Journal templates home and complete them over the next week.  | ☐ remember, understand ☐ find, validate☐ analyze, synthesize☐ evaluate, leverage |
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| My Weather Journal Group Activity **Lesson 4: Presentation Preparation (60 Minutes)**Students will spend approximately 1 hour preparing the Weather Journal PowerPoint/Keynote (in the three to four partner teams) They will create a presentation that depicts the various types of weather that they photographed over the seven day period as well as their journal records for each day and present their findings to the class.It will be helpful to review the meaning of temperature, cloud cover and type, humidity, wind speed and direction with the students before beginning. | ☐ collaborate, communicate☐ analyze, synthesize☐ critical thinking☐ evaluate, leverage☐ create, publish☐ citizenship |
| My Weather Journal Project Presentations **Lesson 4: Presentations (40 Minutes)**Class shareStudents come back together as a class after creating their Weather presentations (PowerPoints/Keynotes). During the sharing time the students will present their presentations to the class discussing and asking questions on the SMART Board. This will give students a chance to share their thoughts on what might go into making a weather forecast. Have students type the questions that were generated by other students into a blank “Pages” document on their iPad tablets for future reference. | ☐ collaborate, communicate☐ evaluate, leverage☐ create, publish☐ citizenship |
| **Lesson Wrap Up:** **Closing Question:** What did we learn from our weather date and how meteorologists go about collecting their own data to predict the weather? Show the Eyewitness Video “Weather” to wrap up this lesson.In the next lesson we will look at “The Weather and Me” How the weather affects all of our lives from what we do, to where we go, what we wear and how we get there.  |
| **Differentiation/Modification/Enrichment:***Students who would rather not use an iPad to record their work can have a paper copy of the template to fill in and can draw a picture of the weather they are seeing. By creating a paper and pencil journal the activity will reach more learning styles. The best template for it is the* [*PDF Journal Template*](http://eisnorgrade5.weebly.com/uploads/2/5/1/5/25151059/weather_journal_page.pdf) *although if a teacher needs to further modify the template to meet individual learning needs the MS Word version is here:* [*MS Word Template*](http://eisnorgrade5.weebly.com/uploads/2/5/1/5/25151059/weather_journal_page_2.docx)*.* |
| bigstock-A-yellow-folder-with-the-label-58273664.jpg**Assessment:** * *Rubric to evaluate the Weather Journals.*
* *Rubric to evaluate group Weather PowerPoints.*
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| **Teacher Reflection:**  |