Biodiversity Lesson Plan 8

Introduction to iNaturalist: Webquest

Teacher: Elena Martin   Grade Level: 9-12   Date: Summer 2016

AZ Science Standards:	*Strand 1: Inquiry Process; Concept 2: Scientific Testing, PO5: Record observations, notes, sketches, questions, and ideas using tools such as journals, charts, graphs, and computers.*
AZ College and Career Readiness Standards:	*9-10.RST.2. Determine the central ideas or conclusions of a text; trace the text's explanation or depiction or complex process, phenomenon or concept; provide an accurate summary of the text.*
Enduring Understandings/ Essential Questions:	Biodiversity (the variety of life on Earth): All Ecosystems contain a variety of life that is interdependent. How is biodiversity affected by human behavior? How does decreased/increased biodiversity affect life on Earth? How are humans dependent on biodiversity? How can student contribute valuable biodiversity data to citizen science projects?
Content Objective: *Science*	*Students will learn how to create a profile, find information on, and use the iNaturalist app/website to record research grade observations*
Language Objective:	Terms associated with iNaturalist website

Vocabulary	Materials
Taxa, observation, boundary, checklist	Computers Project WebQuest handout iNaturalist training powerpoint http://www.inaturalist.org/pages/teacher's+guide
Seasonality *Fall/Spring*	

Monsoon July-Sept.	*Autumn* Oct.-Nov.	*Winter* Dec- Feb.	*Spring* Mar.-Apr.	*Dry Summer* May-June

Guiding Questions: What is *iNaturalist* and how do you use it? What does a research grade observation consist of?

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Anticipatory Set:
Ask students to reflect on what makes a research grade observation.

Activity/Investigation:
Introduce students to the *iNaturalist* website and app using the power point.

Have students access the *iNaturalist* website using computers and the internet and filling out the webquest. During this process they will sign up for their account and become familiar with what a research grade observation entails.

Review the features of *iNaturalist* using the power point and having students take Cornell-style notes on tips on how to use it.

Have student with smart phones load the app and try to access their account.

Closure:
Exit ticket: have students write a question that they have about iNaturalist on a slip of paper (or have them text you?)

Name _____ iNaturalist Username _____

iNaturalist Webquest

Go to www.iNaturalist.org. "Sign Up" for your iNaturalist account. Be sure to create your username as we discussed. Choose a password that you will remember!!! Be sure to change the time to "Arizona" time. Keep the check box checked as is. Go to "Projects" and search for our project which is called "_____". Now "Join this Project" (top right hand corner). Click "Yes I want to join this project" (at bottom). What is the project icon a photograph of? _____

Your biological observations will be documented on the map. Zoom in and zoom out on the map. Are there boundaries? YES or NO

Exactly what does the first sentence under "About" the project say?

_____

_____

What color is the rectangular link you'll click on when you add observations to this project? _____ .

Look at the "Stats box". How many observations have been documented for this project so far?_____How many species have been found for this project so far?_____

What's another piece of information you could find under "Stats"? _____

You'll see that I created this project and am the "admin" (scroll to bottom). What's my username? _____. My photo icon? _____

Now go back to "Projects" and search for "Sky Islands" to find the "Sky Island Nature Watch" Project. Click on it. Look at the map. Zoom in to Tucson area. Click on any pin within the Tucson Basin boundaries. What type of information can you immediately see when you hover over a pin? _____"Join this Project" or any others if you'd like.

Look at Sky Island's most "Recent Observation". Is it research grade? YES or NO.

According to Sky Island Nature Watch "Checklist", how many taxa have been observed? ___

Look at the "Top contributor".

Username? _____

Number of species observed by this person? _____

Number of observations by this person? _____

Click on "atdahl". Click on any one of the Research Grade observations.

Scientific name and/or common name? _____

Date: _____

Number of photos? _____

Go "Back to atdahl observations". Click on his "Lists" and then click on his "Life List". For which group did they find the greatest number of taxa? _____The fewest? _____
Look for "Search List" at top. Type in "Lesser Long-nosed Bat". Click on the link. What is the lesser long-nosed bat doing? _____

Click on the main "Lesser Long-Nosed Bat" link (in blue). Look at the "Classification" of the Lesser Long-nosed Bat on the left. Bats are in what **Order**? (Remember Linnaeus's system of classification: Kingdom, Phylum, Class, Order, Family, Genus, Species) _____

What popular website can an iNaturalist "description" link/blend with (scroll down a bit if needed)? _____

Click on your username to edit "Your Profile". Now add your icon photograph. What did you add a photo of? _____. Now fill out your profile. Keep it professional. Remember, we are part of a greater citizen science project and our data is used and commented on by real scientists globally on a regular basis.

What does your first sentence state?
_____

"Follow" your group members (and anyone else on iNaturalist if interested). Simply look up the project "Members" and click on each group member that you want to follow. There will be the option for you to "Follow" them there. Also, connect your account to Facebook, Twitter, and Imagur (optional).

Explore the iNatualist website for a few minutes. Name three additional interesting features to iNaturalist that you notice:

1.

2.

3.