

Service-Learning Curriculum Unit Plan

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| Unit/Topic: Nature Trail | Grade Level: 2 nd Grade |
| Service Idea: (Provide Description) Make a pamphlet about the Nature Trail including a map, historical timeline, and the importance of the Nature Trail to the community. Pamphlets will be distributed to the community. | |
| 1. Content Standards/Grade Level Content Expectations: (Identify learning outcomes to be addressed) H2.0.1 H2.0.3 H2.0.6 G1.0.1 G1.0.2 G2.0.1 G2.0.2 P4.2.1 P4.2.2 | |
| 2. Students will understand.... (What are the enduring understandings?) <ul style="list-style-type: none"> • How it was built. • How they decided where and when to build the Nature Trail. • When the next phase will take place. • How it is important to the larger community. (Ionia, Belding) • How to use cardinal directions. • The purpose and uses of maps. | 3. Essential Questions to Guide Learning & Inquiry: (Turn understandings into essential questions.) <ul style="list-style-type: none"> • How was it built? • Why did they decide where and when to build the Nature Trail? • When will the next phase take place? • How is the Nature Trail important to the larger community? • How are cardinal directions used on maps? • What are the purposes and uses of maps? |
| 4a. Students will know.... (What is the content knowledge focus?) <ul style="list-style-type: none"> • Individuals involved with the project. • Importance of Nature Trail to the community. • The Belding/Ionia connection to the Nature Trail and future plans. • Distinguish physical and human characteristics of the Nature Trail. • The students will know the importance of symbols, legends, compass rose, and scale on a map. | 4b. Students will be able to do.... (What are the skills?) <ul style="list-style-type: none"> • A map with physical and human characteristics, a legend, symbols, scale, and compass rose. • A timeline of Nature Trail events. • A pamphlet including the history, a map, and benefits of the Nature Trail. |

| Assessment Evidence | |
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| <p>5a. Performance Task: (What will students do to demonstrate their learning?)</p> <ul style="list-style-type: none"> • Make a map of the Nature Trail. • Make a timeline of the history of the Nature Trail. • Make a pamphlet to promote the Nature Trail. (including the map, history, and benefits) | <p>5b. Other Assessment Evidence: (Describe formative/on-going/other summative assessments.)</p> <ul style="list-style-type: none"> • Assessment of map skills: Compass rose Legends, Symbols Scale • Make a class timeline of Saranac. • Make a class timeline of the Nature Trail. • Write a paragraph about the benefits of the Nature Trail to the community. |
| <p>5a. Performance Criteria: (Provide checklists, rubrics, or criteria.)</p> <ul style="list-style-type: none"> • Map rubric 10 pts.- title, compass rose, scale, legend with 3 human and 3 physical characteristic symbols. • Timeline rubric – title, dates in chronological order, descriptions, neatness, spelling accuracy. • Paragraph (Writing process criteria). | <p>5b. Other Assessments Criteria: (Describe criteria for other assessments.)</p> |
| <p>Learning Plan: (Develop a series of lessons/learning activities.) (Give enough detail for another teacher to follow.) (Consider the 5 Components of Service-Learning: Investigation, Planning & Preparation, Action, Reflection, Demonstration of Results & Celebration.)</p> | |
| <p>A. Steps for Students:</p> <ul style="list-style-type: none"> • Lead Activity (Introduce desired results, ask essential question, connect with student experience, begin investigation & pre-reflection) • Student-centered learning steps (Detailed sequencing of lesson; specify formative assessment during practice and summative assessment in conclusion. Include planning & preparation, action,& reflection) • Closure (Revisit enduring understanding/essential question. Include reflection & demonstration of results & celebration) | <p>B. Notes for Teacher: (What do you need to remember to do?)</p> <ul style="list-style-type: none"> • Permission slip • Parent volunteers • Make sure Nature Trail is available • Make contacts for future lessons: Dennis Bowen Margaret Breckon |

C. Materials Needed:

- Chart paper
- Markers
- Permission Slip
- Timeline paper (sentence strips)
- Map paper
- Colored pencils
- Rulers
- Writing toolboxes
- Pamphlet paper (3 fold paper)
- Butcher paper
- Board
- Index cards

D. Approximate Time for Unit:

One trimester

E. Resources:

MSU website – www.msu.edu/objects/content

Dennis Bowen

Margaret Breckon

Saranac Village Office

Across The Bridges – Book about Saranac

Saranac Historical Society

Using Maps – published by Scholastic

Lesson 1 of 6

Lesson Essential Question(s):

- What is a Nature Trail?
- Is there a Nature Trail in Saranac?
- Where is the Nature Trail located?
- Have you ever used the Nature Trail?

Lesson Knowledge:

The student will know what a Nature Trail is and where the Saranac Nature Trail is located.

Lesson Skill(s)

Meta-cognition about the Nature Trail.
Building a point of reference.

1. Lesson Opener:

KWL on the Nature Trail. Survey the students to see how many students are aware of the Nature Trail. Plan a class walking trip to the Nature Trail.

2. Transition:

Putting on coats and using the restroom before leaving.

3. Activity:

Walk on the Nature Trail.

4. Lesson Wrap-Up:

Add to our KWL and look at a map of Saranac and label the Nature Trail.

Have students survey 3 different sources (using teacher created survey) about their use of the Nature Trail.

5. Additional Lesson Notes:

Teacher creates survey to send home at the end of the day that includes 3 questions:

1. Do you know about the Nature Trail?
2. Do you use the Nature Trail? If so, how?
3. What are the benefits of having a Nature Trail?

Lesson 2 of 6

Lesson Essential Question(s):

- How was it built?
- Why did they decide where and when to build the Nature Trail?
- When will the next phase take place?
- How is the Nature Trail important to the larger community?

Lesson Knowledge:

The student will know the history of the Nature Trail and how the Nature Trail is important to the larger community.

Lesson Skill(s)

The students will prepare a list of questions to ask the village manager.

1. Lesson Opener:

Review the KWL and the map of Saranac to show Nature Trail location. Brainstorm a list of questions that can be asked of Dennis Bowen. (village manager)

2. Transition:

Back from large group to seats to work in small groups to write questions.

3. Activity:

Dennis Bowen visits and students ask questions. Students write down responses to questions.

4. Lesson Wrap-Up:

Thank guest. Students write thank you letter. Collect questions and answers to use in future lessons.

5. Additional Lesson Notes:

Lesson 3 of 6

Lesson Essential Question(s):

- What is the chronological order of events in the planning and building of the Nature Trail?

Lesson Knowledge:

Understand how dates relate to the past and present.

Lesson Skill(s)

The students will put the information they learned from their interview into chronological order on a timeline.

1. Lesson Opener:

Show and discuss a number line. Relate a number line to a timeline.

2. Transition:

Give random numbers to students and have them line up in numerical order. Discuss the concepts of first, next, last. Dismiss to seats.

3. Activity:

Randomly pass out questions and answers from previous lesson. As each student reads the question, the class decides when that event occurred (first, next, last) and line students up in a human timeline. Draw timeline, post events in chronological order.

4. Lesson Wrap-Up:

Students make their own written timeline.

5. Additional Lesson Notes:

Lesson 4 of 6

Lesson Essential Question(s):

- How do you read and understand a map?

Lesson Knowledge:

- Compass rose
- Cardinal directions
- Map title
- Legend
- Scale

Lesson Skill(s)

- The students will draw a map using the information they have learned in the lesson.

1. Lesson Opener:

Show the students on a class map the compass rose, cardinal directions, title, legend, and scale.

2. Transition:

Provide the students with a variety of maps and have them identify the compass rose, cardinal directions, title, legend, and scale.

3. Activity:

- Review map from first lesson that shows where the Nature Trail is located. Create a class-sized map of the Nature Trail that includes a compass rose, cardinal directions, title, legend, and scale.

4. Lesson Wrap-Up:

Discuss the class map and encourage students to share what they have learned about maps at home.

5. Additional Lesson Notes:

More practice on individual map skills including scale, compass rose, legends, and title as needed per classroom.

Lesson 5 of 6

Lesson Essential Question(s):

- How do you read and understand a map?

Lesson Knowledge:

- Physical and natural characteristics

Lesson Skill(s)

- The students will draw a map using the information they have learned in the lessons.

1. Lesson Opener:

Review the map from the previous lesson and have the students draw one thing they remember seeing on the Nature Trail.

2. Transition:

Look at the students' drawings and distinguish between physical and natural characteristics.

3. Activity:

- Add physical and natural characteristics to the class-sized map.
- Create their own student map of the Nature Trail using the physical and natural characteristics.

4. Lesson Wrap-Up:

Have students share their own map with another student.

5. Additional Lesson Notes:

Lesson 6 of 6

Lesson Essential Question(s):

What are the benefits of the Nature Trail?

Lesson Knowledge:

Lesson Skill(s)

Write to inform the public about the benefits of the Nature Trail.

1. Lesson Opener:

Review the student surveys from lesson 1 to determine the benefits and uses of the Nature Trail.

2. Transition:

Make a class chart of the benefits of the Nature Trail.

3. Activity:

Each student will write a paragraph to inform the public about the benefits of the Nature Trail.

4. Lesson Wrap-Up:

Have students share their paragraph in a small group.

5. Additional Lesson Notes:

Assess students by having them create their own pamphlet using the content learned in this unit. The pamphlet must include:

- Timeline
- Map
- Benefits