Collaborative Unit Plan
Forest Lake Elementary Technology Magnet School
Content Area: Science - Seasons: Winter
Grade Level: K
Length of Unit: 1 month

Standards to be addressed:
K-1 The student will demonstrate an understanding of scientific inquiry, including the processes, skills, and mathematical thinking necessary to conduct a simple scientific investigation.
K-4 The student will demonstrate an understanding of seasonal weather changes. (Earth Science)

Indicators
K-1.1 Identify observed objects or events by using the senses.
K-1.2 Use tools (including magnifiers and eyedroppers) safely, accurately, and appropriately when gathering specific data.
K-1.3 Predict and explain information or events based on observation or previous experience.
K-1.4 Compare objects by using nonstandard units of measurement.
K-1.5 Use appropriate safety procedures when conducting investigations.
K-4.1 Identify weather changes that occur from day to day.
K-4.2 Compare the weather patterns that occur from season to season.
K-4.3 Summarize ways that the seasons affect plants and animals.

Pre-Assessment Methods to be used: (Highlight those that are appropriate)

<table>
<thead>
<tr>
<th>Readiness</th>
<th>KWL</th>
<th>Self-Evaluation</th>
<th>Inventories</th>
<th>Learning Profile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fist to Five</td>
<td>MAP-math</td>
<td>Squaring off</td>
<td>Student interest</td>
<td>Multiple intelligence survey</td>
</tr>
<tr>
<td>Graphing</td>
<td>MAP-reading</td>
<td>Thumbs up/down</td>
<td>Interest inventory</td>
<td>Other:</td>
</tr>
</tbody>
</table>

Big 6 Format Yes, No (If yes, attach plan)

Responsibilities of Classroom teacher:
Observe weather standards and graph conditions.
Identify characteristics of the seasons.
Read literature and teach songs related to the seasons.
Identifying animals of the polar region.
Identifying animals that hibernate.

Responsibilities of ITS:
Research and identify websites that relate to autumn seasonal changes.
Research and identify SmartBoard activities that relate to the seasons.
Websites:
http://elementary.nettrekker.com-redirector-link_id=284401
Reading Rainbow: Build a Snowman PBS kids
Scholastic.com Authors and Books
Seasons
The Mitten
Winter Storms

Responsibilities of LMS:
Pull all books related to winter, polar animals, penguins, and hibernation.
Prepare and implement lessons on seasons of winter.

Resource Speakers:
Field Studies (in and out of school)

Literary Correlations:
- KIT E Bor       Caps, Hats, Socks and Mittens
- KIT E Lio       A Busy Year
- KIT E Sen       Chicken Soup With Rice
- BB 574.5 Ber    Four Seasons
- VHS 394.2       Holidays and Seasons
- Winter
- 811.008        Winter Poems
- E Geo           Dear Rebecca, Winter Is Here - George

Strategies used within the unit: (Put topics by strategies used.)

<table>
<thead>
<tr>
<th>Acceleration</th>
<th>Independent</th>
<th>Learning contracts</th>
<th>Multiple intelligences</th>
<th>Student choice</th>
<th>Varied materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchor activities</td>
<td>Jigsaw</td>
<td>Learning stations</td>
<td>Orbital studies</td>
<td>Taped material</td>
<td>Varied tasks</td>
</tr>
<tr>
<td>Compacting</td>
<td>Large group</td>
<td>Literature circles</td>
<td>Small group</td>
<td>Tiered lesson</td>
<td>Visual organizers</td>
</tr>
<tr>
<td>Webquests</td>
<td>Others:</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

Technology Components
- SmartBoard Activities
- Digital cameras
### Websites

### Project:
Class Book

### Final assessments used: (highlight those used)

<table>
<thead>
<tr>
<th>Chapter tests</th>
<th>Exit cards</th>
<th>Portfolio review</th>
<th>Rotation</th>
<th>Talking topics</th>
<th>Wraparounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conversation circles</td>
<td>Performance tasks</td>
<td>Reflection gallery</td>
<td>Rubrics</td>
<td>Unit test</td>
<td>Other: Checklist, Informal Observation</td>
</tr>
</tbody>
</table>

Integration into other subject areas:
See NES Integration Wheel

### Evaluation of collaborative efforts:

- How well were the standards met?

- What impact did information literacy have on this unit or lesson?

- How well did the library resource collection support the objectives of this unit?
  
  Scale: 5=Excellent  4=above average  3=average  2=below average  1=poor

Suggestions for improvement:

Materials or technology needed to repeat lesson: