Program Title	Season	Grade Level	State Science Standard
1 <sup>st</sup> Grade			
Bees, Bees, Bees Bee identification-observ bee song; Bee Dance	F ring bees; bee	1 <sup>st grade</sup> homes; honey bees	1.1.1.1.2; 1.4.1.1.1 1.4.3.1.1;
Soil Builders Lab FW (worm life cycle – dig for worm song; Interview a	different types	1st of decomposers;	1.1.1.1.2; 1.1.3.1.1 1.4.1.1.1; 1.4.2.1.2
<b>Signs of Fall / Signs of Spring</b> 1 <sup>st</sup> / 2 <sup>nd</sup> grade 1.4.3.1.1 ; 2.4.3.1.1 (Seasons song; seasons slide show; observe living things; season hike)			
Pebbles, Sand and Silt		1 <sup>st</sup> grade	1.1.1.1.2; 1.3.1.3.2
Animals in Winter	W	1 <sup>st</sup> grade	1.4.2.1.1 , 1.4.2.1.2
2 <sup>nd</sup> Grade			
<b>Grasshopper Lab</b> F 2 <sup>nd</sup> grade 2.1.1.2.1; 2.4.3.1.1 (sketching and observing 6 different types of hoppers; grasshopper song; interview a grasshopper;.)			
<b>Seeds lab</b> F 2 <sup>nd</sup> Grade 2.4.1.1.1; 2.4.3.1.1 ( examine 6 different types of seeds and learn how they move from one place to another)			
Monarch Magic (migration slide show; Li	<b>F</b> ife cycle play;	2 <sup>nd</sup> grade monarch song; interview w	2.4.3.1.1 ith a monarch)
Animal Homes Fieldtrip Students will study holes		2 <sup>nd</sup> grade nests in a local park)	2.4.1.1.1
3 <sup>rd</sup> Grade			
Pond Study F or (Students will catch, iden creatures found in ponds	ntify, sketch an	3 <sup>rd</sup> grade d observe various aquatic	3.1.3.4.1 ; 3.4.1.1.2 3.4.3.2.1
Microlab FWS 3rd grade 3.1.3.4.1 (search for small things outside like an insect wing or a petal; observe it through a microscope			
Birdwatching (learn common birds, bird	S d calls, and ide	3 <sup>rd</sup> Grade entify birds using binoculars	3.4.1.1.1 s.)

3<sup>rd</sup> Grade/4<sup>th</sup> grade W **Animal Tracking Lab** 

3.4.1.1.1 ; 3.4.1.1.2

(study animal track patterns and make a tracking booklet)

3<sup>rd</sup>/4<sup>th</sup> grade **Identifying Trees** 

3.1.1.2.3; 3.4.1.1.2

(learn about different types of leaves and branching; identify 10 types of MN trees)

Season Grade Level State Science Standard Program Title 4<sup>th</sup> grade 4<sup>th</sup> grade Minnesota Glacial Rocks Lab **FWS** 4.3.1.31 Identify Minnesota rocks using rock kits and picking tables. Focus on the study will be on metamorphic, igneous, and sedimentary. 4<sup>th</sup> grade **Properties of Sea Water Lab FWS** 4.2.1.2.1 4<sup>th</sup> grade **FWS Minnesota Mammals Lab** (examine mammal skins and study adaptations of Minnesota mammals) 4<sup>th</sup> grade Sand Lab **FWS** 4.3.1.3.1 (examine sand from all over the world using a microscope and learn how sand is formed.) 4<sup>th</sup> grade Ocean Currents **FWS** 4.3.2.3.1 Parallel and Series Circuit Lab FWS 4.2.3.2.2 4th grade (learn about parallel and series circuits and create some) 4<sup>th</sup> grade Design a Burglar Alarm **FWS** 4.1.2.1.1 (Using everyday materials, students will design and create a burglar alarm) Static Electricity Lab FWS 4th grade 4.2.3.1.1 (learn about 3 different types of static electricity and experience 6 related activities) 4<sup>th</sup> grade Magnetism Lab **FWS** 4.2.3.1.2

(learn about the relationship between magnetism and electricity, then and apply knowledge in lab)

4<sup>th</sup> and 5<sup>th</sup> grade **FWS Aging Trees** 5.1.3.4.1; 5.4.1.1.1 (learn how to age a tree using the tree characteristics, a tape measure and mathematics)

4th and 5<sup>th</sup> grade Natural Science Field Day FWS 5.4.1.1.1 (all day experience including nature hike, pond study, tree study and art activity

Program Title

Season

Grade Level

State Science Standard

5<sup>th</sup> grade

Owl Pellets lab

**FWS** 

4<sup>th</sup>/5<sup>th</sup> grade

(dissect an owl pellet and identify mammal bones found inside)

**Bone Lab** 

4<sup>th</sup> / 5<sup>th</sup> Grade

(explore mammal skulls and learn about the adaptations of mammal feeding behaviors)

**Mapping the Seafloor** 

5th grade

5.3.1.2.1

(a simulation – Students will map the sea floor across the Atlantic Ocean)

Oceanography Food Web

5<sup>th</sup> grade

5.4.2.1.1

(create an ocean food web as a class and individually)

Shell Lab

**FWS** 

5th Grade

5.4.1.1.1

(Use a scientific key to identify numerous species of marine clams and snails)

**Squid Dissection** 

5<sup>th</sup> grade

5.4.1.1.1

(study the outer body; dissect sea pen, ink sac, internal organs, beak and eye)

Plankton Lab

5<sup>th</sup> grade

5.4.1.1.1

(catch, observe and draw freshwater plankton using a microscope)

Life of a Whale

5<sup>th</sup> grade

5.4.1.1.1

(learn about the adaptations of whales, their food habits, and identifying whales)

Whaling

(calculate current population numbers for whales and learn about the history of whaling)

**Compass Course** 

5<sup>th</sup> grade

5.1.3.4.1

(learn how to use compass and how to navigate on a compass course)