Science Unit Plan

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| Unit Title: Plants, Animals, and Habitats | Grade: 3/4 | Number of Lessons: 23 periods  |

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| Big Idea: Plants, Animals, and Habitats | Essential Questions: What are the parts of a plant? What changes do plants go through during their lifespan?  |

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| Topic:  | Time Frame:  | Materials: * Seeds to plant/grow
* Video links
* Pictures of different habitats
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| Outcomes/Indicators: [**PL3.1**](https://www.edonline.sk.ca/webapps/moe-curriculum-BB5f208b6da4613/CurriculumOutcomeContent?id=56&oc=24496)Investigate the growth and development of plants, including the conditions necessary for germination. (CP, SI)[**PL3.2**](https://www.edonline.sk.ca/webapps/moe-curriculum-BB5f208b6da4613/CurriculumOutcomeContent?id=56&oc=24511)Analyze the interdependence among plants, individuals, society, and the environment. (CP, DM, SI) | Overview: **We will start by growing/planting seeds. (1 period to plant) – test out how well they grow without light and water****Lesson 1:** Watch video on how a seed becomes a plant Label a seed and state the steps of germination Lesson 2: Parts of a Plant – <https://www.youtube.com/watch?v=A-xScqCN0GA> Lesson 3: Life Cycle of plants Lesson 4: What Do Plants Need to Grow? <https://www.youtube.com/watch?v=gIRR-VdIP1M> Idea: each group focuses on one of the 5 needs, makes a poster about why it is important Lesson 5: How soil affects plant growth Need – clay, sand, compost, potting soil, put water through to see which one holds water the best (might be in textbook) Lesson 6: Plan a Garden Can be done in groups/partnersDesign a garden with what kinds of plants, where they will all be placed, where the water source will be, etc. Lesson 7: Plants and their Importance to humans Brainstorm uses of plantsRead or watch “The Lorax” Discuss/write about the importance of plants for human life – what would happen if we didn’t have plants? Lesson 8: Making DyeTentative – could we use the food lab for this one class? Lesson 9: How plants and animals help each other Game: 2 teams, give one team ways that plants help animals, and the other team ways that animals help plants. (pg. 64 of grade 3 science resource) Habitats: Lesson 10: What is a habitat, what do habitats need to provide? Lesson 11: Why plants and animals live in certain habitats Have pictures of animals in habitats. On chart paper have students write what the habitat offers the animal. Rotate the pictures so each group gets each picture. Lesson 12: Summative Assessment Students to make a poster about plants – what they need to live (5), a picture labeled of the parts of a plant, how their own plants look at the end of the unit  | Assessment: Labelling check in (give check mark if all filled in correctly) Label parts of a plant Draw a life cycle Posters – present and explain why plants need that thing to live Lab report Rubric for garden plan Response to Lorax – questions to hand in Participation markExit slip Observations, conversations Checklist for all of the things required  |