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 |
| 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/partners  Design 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 plants  Read 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 Dye  Tentative – 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 mark  Exit slip  Observations, conversations  Checklist for all of the things required |