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| Instructions for Using Remote Learning Projects |
| These materials were developed with the intention of easing the transition between in-class and temporary remote learning. Learning experiences are aligned with curricular outcomes and assessment tools have been included with each project. Note:  * 1. The teacher either sends a link to the appropriate project or sends the document itself.   2. The teacher ensures that parents/caregivers receive any required school supplies (bin with pencils, markers, paper, etc.).   3. The teacher reassures parents/caregivers that communication will be maintained between home and school.   4. The parents/caregivers may access additional resources at:      + My Learning at Home ([www.edu.gov.mb.ca/k12/mylearning](http://www.edu.gov.mb.ca/k12/mylearning))      + My Child in School ([www.edu.gov.mb.ca/k12/mychild/index.html](http://www.edu.gov.mb.ca/k12/mychild/index.html)) |

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| PROJECT OVERVIEW | |
| Grade : | 5 |
| Main Subject : | Science |
| Big Idea : | Simple Machines |
| Title : | LEVERS |
| Cluster : | Forces and Simple Machines |
| Duration : | 5-10 hours |
| Materials : | Pen, Pencils, rubber bands, bulldog clips, miscellaneous building supplies found around the house or classroom, playdough or similar |
| Short description : | This project focuses on the exploration of levers, their classes and uses, identifying lever anatomy using proper vocabulary, identifying levers present in everyday life, inquiry and building of a scale trebuchet for accuracy and power, and building a lever to move an object. Secondary learning goals include measurement, the implementation and exploration of levers using critical inquiry and the problem-solving loop, and presentation and communication skills when explain final project through written, digital, or oral media. |

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| LeaRNING OUTCOMES |
| Science: [www.edu.gov.mb.ca/k12/cur/science/scicurr.html](http://www.edu.gov.mb.ca/k12/cur/science/scicurr.htm)  5-3-01, 5-3-02, 5-3-03  Mathematics: [www.edu.gov.mb.ca/k12/cur/essentials/docs/glance\_kto9\_math.pdf](http://www.edu.gov.mb.ca/k12/cur/essentials/docs/glance_kto9_math.pdf)  5.SS.2, 5.SP.3 |

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| Assessment | | | | | | | | | | | | | |
| LANGUAGE ARTS | | | | | MATHEMATICS | | | SCIENCE | | | SOCIAL STUDIES | | |
| COMP.  Listening &  Viewing | COMP.  Reading | COMM. Speaking & Represent. | COMM. Writing | Critical Thinking | Knowledge  and  Understanding | Mental Math &  Estimation | Problem Solving | Knowledge  and Understanding | Scientific Inquiry Process | Design Process &  Problem Solving | Knowledge  and Understanding | Research  and Communication | Critical Thinking and  Citizenship |
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| Original concept created by: | David Gamble |
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| |  | | --- | | Learning Experiences and Assessment | | Question: | | Teacher’s instructions:  Have students read and complete the attached PowerPoint. Edit and augment where needed to fit unique teaching and learning context.  Step-by-step instructions for students:  See instructions in project, multiple assignment found within. | | | | |
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| APPENDIX (Printable Support Materials Including Assessment) | | |

Grade 5 Levers PowerPoint

Assessment Rubric – see next page

