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| **Suggested Weekly Learning Activities for Teachers** | |
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| **Subject Area:** | Numeracy 6-8 |
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| **Big Idea:** | Build a Playground  Shape and Space: Area, Perimeter  Number sense - multiplication, addition, 15% tax\* |
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| **Plan/Instructions:** | Several stores are sold out of backyard playground sets and playgrounds in the province are closed! The great news is, you can design and build your own!  **Your mission: To design a backyard playground and calculate the total cost for the supplies.** |
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| **Materials needed:** | Paper, ruler, pencil, eraser, material list (attached), calculator |
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| **Source:** | GNB rules of social distancing |
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| **Additional Resources:** | <https://www.homedepot.ca/en/home.html> |
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| **Opportunities for Stretch:** | Create a community playground but you must stick to a budget. (ex. less than $10 000) |

Step 1 - Design your ideal playground using the following guidelines.

 It must include:

* at least one slide
* at least one climbing piece
* at least 2 swings
* more than one level
* an interactive accessory

Step 2 - Create a sketch of your playground.

Step 3 - Using the material list below, decide what you need to buy to build your playground.

Step 4 – Grade 6 – It’s tax-free day! Calculate the cost of materials only.

\*Grade 7 and 8 – You missed out on the sale. Calculate the cost of materials **including** 15% sales tax.

**Materials: (more items online at Home Depot)**

**Slides:**

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| Scoop Slide  48’ Deck  $129 | null  60” Deck  $571 | null  60’’ Deck  $294 | null  60’’ Deck  $998 |

**Swings:**

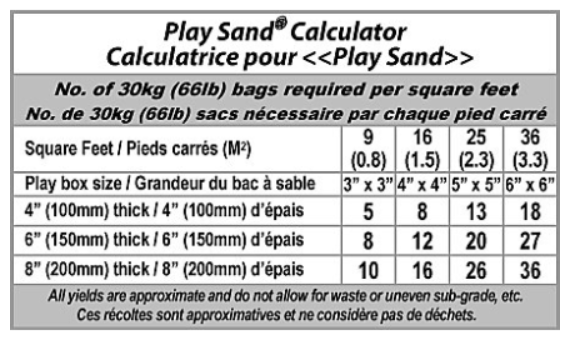
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| null  Trapeze Bar  $49.49 | Gym Rings  $28.02 | null  Swing Set  $34.99 | Wind Rider Glider Swing  Glider Swing  $99.00 |

**Climbing:**

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| 6 Steps Gymnastic Climbing Rope Ladder - Fully Assembled  Rope Ladder  $76.99 | 5 Steps Triangle Climbing Rope Ladder - Fully Assembled  Triangle Rope Ladder  $109 | Climbing Wall  $479 | Steps  $294 |
| null  Climbing bars  $87.98 | null  Vertical Climber  $155 | null  Clibing Rope  $25.86 | null  Climbing Rocks (set of 4)  $35.56 |

**Other Accessories:**

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| Speak and Spy MegaScope Playground Megaphone and Periscope  Speak and Spy  $59.27 | Steering Wheel  $28.02 | Playground Play Handles (4-Pack)  Handles (set of 4)  $43.10 | Water Cannon  $39.34 |
| Telescope  $34.28 | Picnic Table Brackets  $62.72 (set of 2) | $6.98 for 30*kg* bag  (See chart below) | Toddler Swing  49.99 |



**Building Materials:**

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| Deck Boards | 5/4 x 6’’ x 8 feet | $6.85 |
|  | 5/4 x 6’’ x 10 feet | $8.55 |
|  | 5/4 x 6’’ x 12 feet | $10.25 |
|  | 5/4 x 6’’ x 16 feet | $13.70 |

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| Posts | 4 x 4 x 8 | $12.48 |
|  | 4 x 4 x 10 | $15.42 |
|  | 4 x 4 x 12 | $18.84 |

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| 2 x 4’s | 2 x 4 x 8 | $6.22 |
|  | 2 x 4 x 10 | $7.90 |
|  | 2 x 4 x 12 | $9.14 |
| 2 x 6’s | 2 x 6 x 8 |  |
|  | 2 x 6 x 10 |  |
|  | 2 x 6 x 12 |  |

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| Screws | 3” Deck Screws (1000) | $46.00 |
|  | 3” Deck Screws (250) | $27.00 |

**Enrichment:**

* Find a playground set online (Home Depot, Toys R Us, Kent, Canadian Tire, Walmart, etc.) and calculate the cost to build it buying the materials **vs** buying the whole set. Which is cheaper?
* You are hired by the town/city to design a large community playground to celebrate the lifting of social distancing rules. You can be as creative as you wish and your playground can include dry and wet activities. Create a plan and a budget to present to the town/city council. They have asked you to try to stay within $10 000.