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| **The Phantom of the Classroom**Name: Date: |
| **LEARNING OUTCOMESBy the end of this activity, students:*** **will understand the meaning of phantom power**
* **will be able to locate phantom power sources throughout their school or home**
* **will have identified ways to reduce phantom energy use**
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| **OPTION 1: Locate phantom power in your school**Students will create a map of their school and identify phantom power sources on it.Watch the following video on what phantom energy is.<http://infosthetics.com/archives/2008/07/price_of_wasted_standby_vampire_power.html>*In your own words, explain the concept of phantom energy.*The following site has a list of many popular devices that consume phantom power. Use this information to determine how much Phantom energy the room you are auditing is using. <http://standby.lbl.gov/summary-table.html> |
| **Room: Room:**  |
| Device | Average (W) | Device | Average (W) |
| 7 chargers  | 7X0.26W  |  |  |
| 1 projector  | 7.5W |  |  |
| 1 laptop  | 2.84W |  |  |
| 1 computer speaker  | 1.79W |  |  |
| 1 printer  | 5.26W |  |  |
|  1 rowter  | 1.44W |  |  |
| 1 plucked in ipad  | 2.24W |  |  |
| Grand Total Classroom: 206.01Grand Total School |
| *What are three ways that we can reduce phantom energy within our school:*1.use power bars 2.unpluck everything when you go on a vacation/holiday 3. when your chrome book is fully charged unplug it  |