**School Energy Audit**

**Please do this audit for each room in the school, including classrooms, and special rooms such as the library, cafeteria, and the gym. Use your tools found in your tool kit. Have fun being energy detectives!**

**Classroom**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Students:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Office Equipment**

|  |  |  |
| --- | --- | --- |
| **Object** | **Is it turned off/unplugged**  **when not being used?** | **How many watts does it use when on? Use your kill-o-watt to find out.** |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-04 at 7.18.00 PM.png** |  |  |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-04 at 7.18.22 PM.png** |  |  |
| **SmartboardMacintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-04 at 7.19.06 PM.png** |  |  |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-04 at 7.18.47 PM.png** |  |  |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-04 at 7.19.12 PM.png** |  |  |
| (boxes for other items) |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Lighting**

|  |  |
| --- | --- |
| **Are the lights controlled by a motion sensor?** | **Yes No** |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-03 at 6.47.50 PM.pngAre the lights on or off?** | **On Off** |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-03 at 6.56.34 PM.pngIs there a reminder sign to turn them off?** | **Yes No** |
| **Is there day lighting?** | **Yes No** |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-03 at 6.49.50 PM.pngWhat is the lighting level in the**  **room? (Use your light meter!)** | **Lux/ Footcandles** |
| **Is the light level high or low?** | **High Low** |
| **How many windows are in the room?** |  |
| **# of windows with coverings (blinds, curtains)** |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Types of light bulbs (Circle the picture of the lights found in the room).** | Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-03 at 3.35.18 PM.png | Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-03 at 3.35.25 PM.png | Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-03 at 3.35.29 PM.png | Other |
| **How many of each kind are in this room?** |  |  |  |  |

Types of Lighting

Heating/Cooling

|  |  |
| --- | --- |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-03 at 5.50.35 PM.pngWhat is the temperature of the room?**  **Use your thermometer!** |  |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-03 at 5.55.43 PM.pngWhat does the thermostat**  **say the temperature is?** |  |
| **Can the teacher control how hot or cold the room is?** | **Yes No** |
| **Macintosh HD:Users:kcroas:Desktop:Screen Shot 2016-10-03 at 5.54.47 PM.pngAre the spaces around vents being blocked?** | **Yes No** |
| **How many doors to the outside does this room have?** |  |
| **If there are outside doors, do they have weather stripping?** |  |

**Final Step: Testing Appliances/Final Evaluation**

Do the next two pages when the rest of the audit is finished.

**Use your kill-o-watt:** Test 6 items in your school that you think use a lot of energy. You can choose the ones you tested already or choose new ones! Use your kill-o-watt in your tool kit to test each item for 6 minutes. Multiply your answer by 10 to figure out how many watts it uses in 60 minutes.

|  |  |  |
| --- | --- | --- |
| **Item** | **Watts (6 minutes)** | **Watts (60 minutes)** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Which item uses the most electricity?

Did it surprise you? Why or why not?

**School Evaluation : Final Step**

**What 3 things could teachers and students do to make your school more energy efficient?**

**1.**

**2.**

**3.**

**What grade would you give your school when it comes to energy efficiency?**

**A B C D F**

**Why?**