**Science : Week 6 Energy Use Then and Now**

**Have you ever tried to imagine how a typical winter day for a kid in 1900 might have been? How it is different from today in terms of energy use may shock you! Read the following comparisons and write down or circle all of the examples of energy use in each. After you are done, decide which time period used more energy during a typical winter day. Discuss with a family member ways that you might be able to decrease your energy use by making small changes to your day.**

**Before Sunrise**

**1900:** Waken to the sound of father throwing wood into the stove. Light oil lamp and put on layers of clothing. Run outside to the outhouse. Gather eggs from henhouse.

**2020:** Waken to the sound of alarm clock. Hear cars on the street and sirens in the distance. Turn over and go back to sleep.

**Getting Ready for School**

**1900:** Take porridge from stove. Pump water from well into a wash basin to clean up. Gather books. Bundle up and walk to school.

**2020:** Turn off snooze on alarm clock and head to bathroom for a shower. Blow dry hair. Eat breakfast while watching TV. Put dishes in the dishwasher. Get clothes out of dryer, grab headphones, cell phone and backpack. Board the bus for school.

**School Day**

**1900:** Help gather wood for schoolhouse woodstove. Hang wet mittens near stove and refill ink well on desk. Take your seat and get ready for the day’s lessons.

**2020:** Go to locker and preparebooks for classes. Present projects saved on memory stick on smartboard. Research social studies project on computer.

**After School**

**1900:** Walk home. Feed chickens, chop wood and add wood to woodstove. Light oil lamps and start homework.

**2020:** Get a drive to basketball game. Play game on cell phone on the drive home.

**Early Evening**

**1900:** Eat stew with homemade bread. Pour hot water from stove into dishpan and wash dishes by hand. Pour hot water into a metal tub to bathe.

**2020:** Put supper in microwave. Watch TV while eating supper. Research for school project on computer.

**Late Evening**

**1900:** Place a hot brick under covers to warm bed. Blow out oil lamp. Fall asleep to the sound of your parents’ voices in the next room.

**2020:** Turn on electric fireplace. Microwave popcorn and watch a movie before going to bed.

**Activity: Using the same format, pick a day this week to track your energy use during the different times of the day noted in the above activity. If possible, ask a family member to do the same(sibling, parent or grandparent) Write simple phrases describing what you did during each time of the day. At the end of the day, circle all of the examples of energy use(oil/gas, coal, wood, hydro, etc.) Who used the most energy during the day? Discuss with a family member ways to reduce energy use during the day. You may wish to repeat the activity to track how much energy you use in a week with no changes as compared to a week with changes.**