Self-studying paper 07

Topic – Simple machines

Lesson - Wheel and axel

*At the end of this lesson you will,

- Show wheel and axel is a simple machine, using a simple activity.
- Show the ways of how to use wheel and axel in effective manner using a simple activity.
- Give some examples for how to use wheel and axel in effectively.

*First, Read the part of 15.3 in page number 95 in grade 9 text book part ii.

*Then draw the figure 15.19 and name its parts handle, load, bucket and rope.

*Then draw figure 15.20 and name the parts.

- When the handle is turned once, the distance travelled by the effort is equal to the circumference of the circle of circle.
- Then understand, load is lifted by a distance which is equal to the circumference of the stem.

*Now carefully read the page number 96,

     i. Do the calculation.

     ii. Explain about the velocity ratio of the wheel and axel machines.

     iii. Write down some instances when using wheel and axel machines.

*If you can collect some pictures of wheel and axel machines.