The power jump

How high can people (and other things) jump?
Work in groups. One person holds up the tape measure (or another measuring implement) and the others jump as high up as they can. Each person then writes down their name and how high they jumped on the chart below.
You can compare the height of the jump with other things that are tall or that can jump high!

My name:	How high I jumped (in cm):

Now, compare your jump with some other dizzying heights!

245cm
World High Jump Record (2.45m)

300cm
How high electricity can 'jump' on an overhead railway line (3 metres)

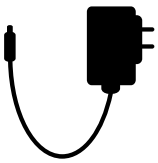
500-600cm
Average height of a giraffe (5–6 metres)

175.3cm
Height of average man (1.753m)

Now look at these objects which are powered by electricity:

TV

Mobile phone charger



Desk lamp

See if you can guess which one uses the most electricity. And which one uses the least. Write your answers here:

Uses the most electricity: .....

Uses the least electricity: .....

Now check the correct answers at the bottom of the page. How did you do?

Answers: A TV (42" HD) carries 240 volts (i.e. it uses the most electricity). A mobile phone charger carries 24 volts (i.e. it uses the least electricity). A desk lamp (with 60 Watt bulb) carries 120 volts.

RAILWAY ELECTRICITY IS 100 TIMES MORE POWERFUL THAN ELECTRICITY IN THE HOME. It is very dangerous so remember the **Rail Life 'Safety Top 3':**

- **STAY CLEAR OF THE TRACKS.** Is it worth putting your life on the line?
  - electricity can jump up to three metres.
  - don't play with kites or balloons near overhead power lines.
- **USE THE LEVEL CROSSING.** Shortcuts across the railway can kill.
- **KNOW THE SIGNS.** Be alert to railway signs, they could save your life.