logo **Powers and Roots (No calculator)**

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| **Literacy**  Describe through examples the differences between the words “base number” and “index number” | **Research**  Why are base 2 numbers so important to the technological changes we have been seeing in your lifetime so far? Summarise your thoughts in no more than  (In 1100100 base 2) words! | **Memory**  You need to learn how to use and apply the following index laws:  = 1  = |
| **Skills**  1. Evaluate the following: a) b) c) d) e) f)  g) h)  2. Estimate the answers to a) b) c) d)  3. I am an odd two-digit number but I am not a prime number. If you reverse  me and add me to myself, you get a square number. If you reverse me  and subtract me from myself, you get another square number. Who am I?  4. Rewrite the following as a single power of k: | | **Stretch**    1. Find the value of n in the following  equation    2. If = 8 and = 5, what is the  value of a) b) c)    3. What is this cartoon  about? |

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