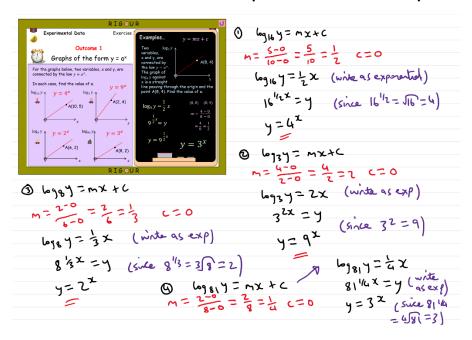
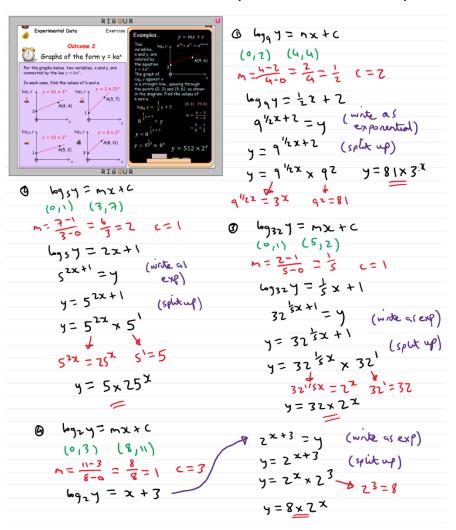
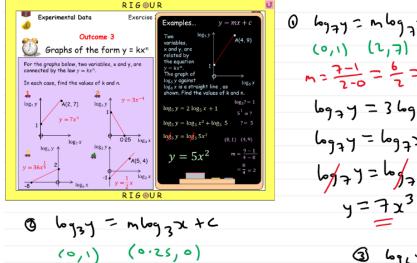
Bronze Outcome 1 - Graphs of the form $y = a^x$

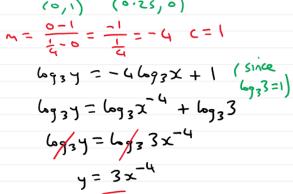


Silver Outcome 2 - Graphs of the form $y = ka^x$



Gold Outcome 3 - Graphs of the form $y = kx^n$





3
$$\log_{1} y = m \log_{1} x + c$$

 $(-8,0)$ $(0,2)$
 $m = \frac{2-0}{6+8} = \frac{2}{8} = \frac{1}{4}$ $c = 2$
 $\log_{1} y = \frac{1}{4} \log_{1} x + 2 \cdot \frac{\log_{1} 36 = 2}{\log_{1} 36}$
 $\log_{1} y = \log_{1} x \cdot \frac{1}{4} + \log_{1} 36$
 $\log_{1} y = \log_{1} x \cdot \frac{1}{4}$
 $y = 36 x \cdot \frac{1}{4}$

(a)
$$\log_2 y = m \log_2 x + c$$

 $(0,-1)$ (5,4)
 $m = \frac{u+1}{s-0} = \frac{s}{s} = 1$ (=-1)
 $\log_2 y = \log_2 x - 1$

$$by_2y = by_2x + by_2\frac{1}{2}$$

$$by_2y = by_2\frac{1}{2}x \qquad (by_2\frac{1}{2} = -1)$$

$$y = \frac{1}{2}x$$