Graphing exponential functions

Work in pairs to solve the following problems.

1) Graph the function $f(x)=2^x$: start with a few points having integer x-coordinate (0, 1, 2, -1, -2 and so on).
2) Check your work watching https://www.youtube.com/watch?v=tAaDItpC8OI to 1:30.
3) Graph the function $g(x)=\left(\frac{1}{2}\right)^x$. What relation can you find between the graphs of *f* and *g*?
4) Complete the table in which we compare and contrast *f* and *g*. All functions with base >1 have the characteristics of *f*, while all functions with base between 0 and 1 have the characteristics of *g*.

	$f(x)=2^x$	$g(x)=\left(\frac{1}{2}\right)^x$
The base is	>1	
The function is		decreasing
that is, the slope is		
The y-intercept is		
The domain is		
The range is		
The horizontal asymptote is		
f and *g* are symmetrical about the y-axis.		