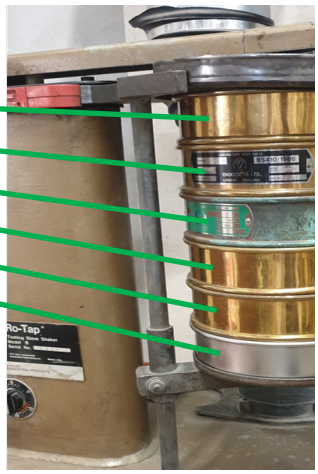
ACTIVITY 1

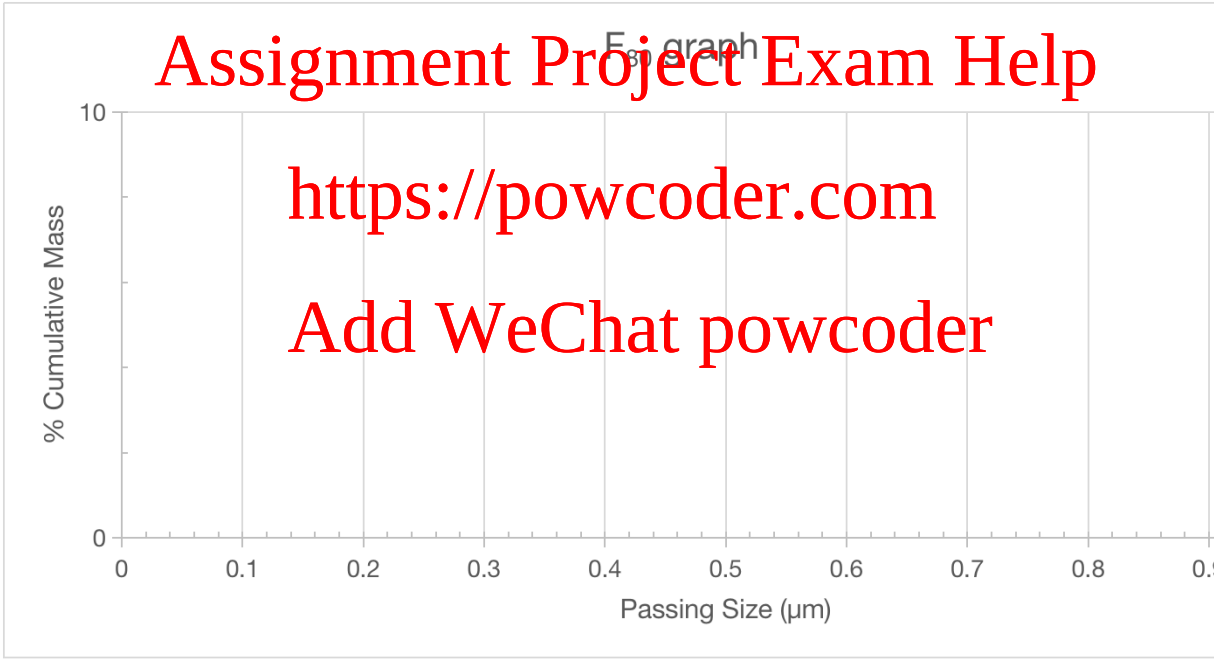
Feed Sizing

Screen ranges (µm)	Passing size (µm)	Mass (g)
−3350 +2000	3350	201
−2000 +800	2000	247
−800 +500	800	62
−500 +180	500	51
−180 +63	180	35
−63	63	43
Total		639



Step 1: Feed F80

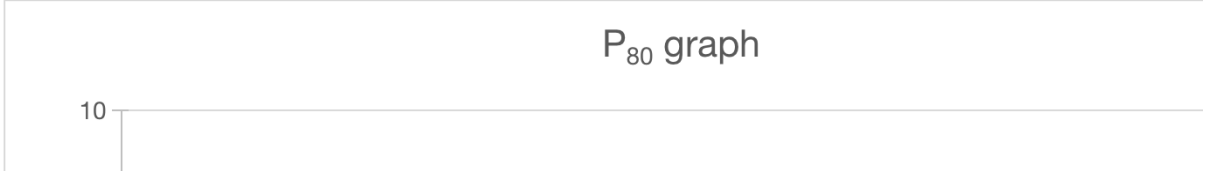
Passing size (µm)	3350	2000	800	500	180
Mass (g)	201	247	62	51	35
Cumulative Mass (g)	639	438	191	129	78
Cumulative %					

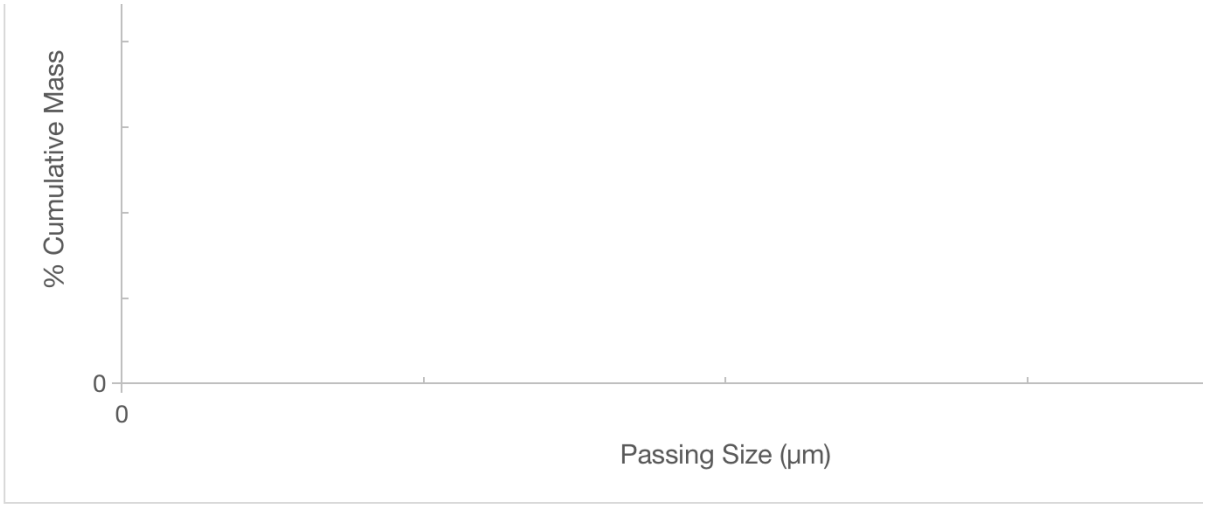


F80 _____ microns *used for calculations in Activity 2*

Step 2: Product P80

Passing size (µm)	200	180	125	75	63
Mass (g)	65	181	154	64	68
Cumulative Mass (g)					
Cumulative %					





P80 _____ microns *used for calculations in Activity 2*

ACTIVITY 2

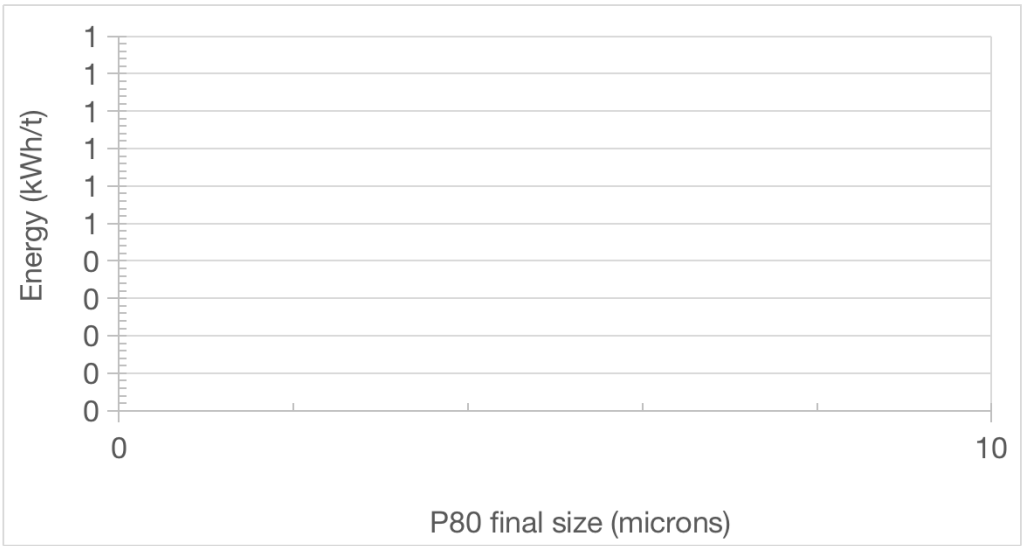
S	180	microns
G	1.69	g/rev
P80	0	microns (see Activity 1)
F80	0	microns (see Activity 1)

Bond Work Index *W* kWh/t (input formula) *input equation 1 from*

Ultra-fine grinding

Wi 0.00 kWh/t (from value above)

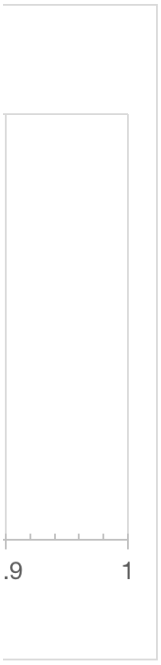
F80	P80	W	
500	120		*input equation 2 from*
500	90		
500	60		
500	35		
500	15		
500	5		



Product Sizing	
Passing Size (µm)	Mass (g)
200	65
180	181
125	154
75	64
63	68
53	50
Total	582

63	
43	639
43	

Starting with the smallest size fraction, add the masses progressively of e
Divide the cumulative mass by the total and multiple by 100



53	
50	582

Now repeat the process above, for P80

worksheet

worksheet

ach larger size fraction so that the mass in column B equals the total mass.