

GEOLOGY 12
CHAPTER 8 GEOLOGIC TIME
ABSOLUTE TIME: RADIOMETRIC DATING ACTIVITY AND WORKSHEET

Name _____

DEMO

1. Record the following:

SAMPLE # _____

Number of Parent Atoms (*P*) _____ (*natural color*)

Number of Daughter Atoms (*D*) _____ (*pink*)

Ratio of Parent to Daughter (*P:D*) _____ = _____ (*simplest form*)

Percentage of Parent Remaining:

$$\frac{P}{96} \times 100 = \text{_____} \%$$

2. Complete the following table.

SAMPLE	Percent of Parent Atoms (P)	Percent of Daughter Atoms (D)	Ratio of P to D	Fraction of Parent Atoms	Number of Half-Lives
1	100%	0%	1:0	$\frac{1}{1} = \left(\frac{1}{2}\right)^0$	0
2					
3					
4					
5					
6					

3. On the following grid, sketch a radioactive decay curve for macaronium. Your sketch must contain:

- a title ("Radioactive Decay of Macaronium")
- vertical and horizontal axes labels ("Percent of Parent" and "Half Lives" respectively)
- a smooth and clearly drawn decay curve for the plotted data, in pencil.
