

3.41 For plane A we will move the origin of the coordinate system one unit cell distance to the right along the y axis; thus, this is a $(1\bar{1}0)$ plane, as summarized below.

	\underline{x}	\underline{y}	\underline{z}
Intercepts	$\frac{a}{2}$	$-\frac{b}{2}$	∞c
Intercepts in terms of a , b , and c	$\frac{1}{2}$	$-\frac{1}{2}$	∞
Reciprocals of intercepts	2	-2	0
Reduction	1	-1	0
Enclosure		$(1\bar{1}0)$	

For plane B we will leave the origin of the unit cell as shown; thus, this is a (122) plane, as summarized below.

	\underline{x}	\underline{y}	\underline{z}
Intercepts	a	$\frac{b}{2}$	$\frac{c}{2}$
Intercepts in terms of a , b , and c	1	$\frac{1}{2}$	$\frac{1}{2}$
Reciprocals of intercepts	1	2	2
Reduction		not necessary	
Enclosure		(122)	