

name _____

MINERALOGY LABORATORY

Point Groups

objective: learn how to “key out” crystals to find their crystal system and point group.

- 1) For each of the six cardboard models, check to see what symmetry elements are present and fill out Table 1 on the next page.
- 2) Now do the same for the 7 wooden blocks (numbers in table).
- 3) After filling out Table 1, use the attached key and figure out what crystal system and point group each sample belongs to and fill in Table 2, below.

Table 2.

model/block	crystal system	point group
red cube		
red and yellow		
green octahedron		
blue scalenohedron		
green pyramid		
yellow house		
tan dingus		
3		
34		
66		
143		
169		
181		
187		

For each model/block put check marks in the appropriate column if it contains the indicated symmetry

[illegible]

Key to Determine Point Groups (Crystal Classes)

