Igneous Rock Identification Flowchart

INTRUSIVE or EXTRUSIVE?	TEXTURE	MAFIC COLOUR INDEX (MCI) or *Distinguishing Properties*	ROCK NAME
intrusive *coarse groundmass*	pegmatitic	*average grain size > 1cm*	**pegmatite**
	phaneritic	MCI = ~ 5 - 20%	**granite*** (*quartz present*) / **syenite*** (*no quartz*)
		MCI = ~ 25 - 50%	**diorite***
		MCI = ~ 35 - 65%	**gabbro***
		MCI = ~ 90 - 100%	**peridotite**
extrusive *fine groundmass*	aphanitic	MCI = ~ 5 - 20%	**rhyolite***
		MCI = ~ 25 - 50%	**andesite***
		MCI = ~ 35 - 65%	**basalt***
	vesicular	felsic (*light colour*)	**pumice**
		mafic (*dark colour*)	**scoria**
	glassy		**obsidian**
	pyroclastic	*fragments ≤ 2 mm*	**volcanic tuff**

*Add "**porphyritic**" to the front of the name when phenocrysts are present (e.g., porphyritic granite, porphyritic rhyolite, etc.)