<table>
<thead>
<tr>
<th>Watercolor Substitution Cheat Sheet</th>
<th>* = Lindsay Recommended color</th>
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</table>
| **Phthalo Blue** (Strong cool-green leaning-blue) (also look for that pigment) AKA Pthalo blue GS or green shade. | Prussian Blue  
Cyan Blue  
Cerulean Blue (if it looks dark: Mission Gold)  
Helio Cerulean  
Winsor Blue (Winsor & Newton)  
Intense Blue (Winsor & Newton/Cotman)  
Azure (Yarka/White Nights)  
Turquoise |
| **This colors is great for mixing green when paired with a cool yellow.** | |
| Indigo (deep cool blue grey) | Indanthrone Blue  
Payne's Grey+Prussian Blue |
| **Ultramarine Blue** (warm, purple bias red) | Colbalt Blue  
Pthalo blue Red Shade (not my fave substitute)  
Poland Blue |
| **This color is good for mixing violet with a cool red or gray with burnt sienna.**  
***This color granulates for textured washes.** | Manganese Blue  
Phthalo blue + white  
Cinerous Blue (Sennelier) |
| Cerulean Blue (Less intense cool blue) | Alizarian Crimson  
Carmine  
Crimson lake  
Rose Madder (weaker than AZ) |
| **Quinacridone Rose** (Cool red with violet undertones) | Vermilion  
Scarlet  
Napthol Red  
Bright Red/ Brilliant Red  
Pyrrole Red |
| **This color makes lovely purples and mauve with blues.** | Magenta |
| **Cadmium Red** or Cadmium red light (Warm red with orange undertones) | Gamboge  
Indian Yellow  
Permanent yellow deep |
| **This color makes beautiful oranges when mixed with warm yellows.** | Lemon Yellow (cool yellow)  
Cadmium yellow light, pale or Cadmium Lemon |
| Permanent Rose | |
| **Cadmium Yellow** (warm yellow)  
Cadmium yellow medium/Cadmium yellow deep | |
| **This color makes beautiful oranges when mixed with warm reds or peach with cool reds** | |
| **Hansa Yellow Light** (cool yellow) | Olive Green  
Hookers Green  
Phthalo Green + any warm yellow  
Cinnabar Green Deep |
<p>| <strong>This color makes bright greens when mixed with cool blues.</strong> | |</p>
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<th>Common or recommend color</th>
<th>Substitutes on the right hand side will have the same undertone and similar tinting strength.</th>
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| Phthalo Green            | Viridian Hue  
Intense Green  
Emerald Green  
Bamboo Green  
Permanent green deep |
| Green Gold (PY129)       | Green Gold (PY150)  
Azo Green  
Lemon yellow + a touch of phthalo green  
Aureolin |
| Cobalt Teal (PG50)       | Phthalo Blue + Phthalo Green + White |
| Dioxazine Purple/Violet  | Phthalo Blue + Quin Rose |
| Mauve (PV19)             | Quin Rose + Diox Purple |
| Cadmium Orange (PO20)    | Pyrrole Orange (PO 71)  
Cadmium red + Cadmium Yellow |
| Naples Yellow (earthy pale yellow semi opaque) | Yellow ochre + white  
Raw sienna + white |
| *Yellow Ochre (earthy yellow) | Ray Seinna  
Raw Umber (if light and yellowish) |
| Burnt Umber (Pbr7)       | Van Dyke Brown  
Burnt Sienna (if PBr7 pigment)  
Sepia  
Raw Umber (if dark like LUKAS brand) |
| Burnt Sienna (If PR101)  | Transparent Red Oxide  
Red Ochre  
Indian Red  
English Red  
Venetian Red  
Light Red |

Please note that there is color variations between brands however these colors should serve as fine substitutions with watercolor (and other media) painting.

The colors I recommend are in **bold print** with a * before them.

Color mixing tips are in blue next to **.

Common or recommend color is in the left column and denotes if the color (if a primary) is warm or cool. The substitutes on the right hand side will have the same undertone and similar tinting strength.

Find free watercolor tutorials on my **YouTube Channel: youtube.com/user/thefrugalcrafter** and on my **blog: thefrugalcrafter.wordpress.com**

**My painting courses: lindsayweirich.teachable.com**

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