## Who's Who Among the Birds

Bluebird Cardinal Dove Eagle Finch Goldfinch Hummingbird Identity bird Jay Kestrel Lark Mockingbird Owl Queer bird Quixotic bird Quirky bird Robin Sage bird Starling Thrush Turing bird

Bxyz = x(yz)Cxyz = xzyDxyzw = xy(zw)Exyzwv = xy(zwv)Fxyz = zyxGxyzw = xw(yz)Hxyz = xyzyIx = xJxyzw = xy(xwz)Kxy = xLxy = x(yy)Mx = xxOxy = y(xy)Qxyz = y(xz) $Q_1xyz = x(zy)$  $Q_3xyz = z(xy)$ Rxyz = yzx $\Theta \mathbf{x} = \mathbf{x}(\Theta \mathbf{x})$ Sxyz = xz(yz)Txy = yx $\mathbf{U}\mathbf{x}\mathbf{y} = \mathbf{y}(\mathbf{x}\mathbf{x}\mathbf{y})$ 

Vireo	Vxyz = zxy
Warbler	Wxy = xyy
Converse warbler	$W^1xy = yxx$

## **Starred Birds**

Cardinal once removed	$C^*xyzw = xywz$
Cardinal twice removed	$C^{**}xyzwv = xyzvw$
Warbler once removed	$W^*xyz = xyzz$
Warbler twice removed	$W^{**}xyzw = xyzww$

## **Derivations of Certain Birds from Others**

From B

	Dove Eagle	BB B(BBB)
	From B	B and T
Robin	BBT	
Cardinal	RRR-	-also B(T(BBT))(BBT).
Finch	ETTE	T—also B(TT)(B(BBB)T)
Vireo	BCT-	-also CF.
Queer bird	CB	
Quixotic bird	BCB	
Quirky bird	BT	
Goldfinch	BBC	

From B, T, and M

Double mockingbird	BM
Lark	QM

Warbler	C(BMR)
Converse warbler	BMR—also CW.
Hummingbird	BW(BC)
Starling	B(BW)(BBC)—also BW*G.
Owl	QQW—also BWQ and SI.
Turing bird	LO—also L(SI).

## Starred Birds

C*	BC
C**	BC*
W*	BW
W**	BW*

Some Sage Birds

BML	LO(LO)	BM(BWM)
Q(QM)M	W(QL(QL))	BM(RMB)
SLL	W(M(QL))	BM(CBM)
UU	WS(BWB)	