Using device: cuda
Training subset size: 5000
Test subset size: 1000
Epoch 1/10, Loss: 153.6073
Epoch 2/10, Loss: 126.8286
Epoch 3/10, Loss: 114.1226
Epoch 4/10, Loss: 99.1609
Epoch 5/10, Loss: 91.1107
Epoch 6/10, Loss: 81.4111
Epoch 7/10, Loss: 74.0617
Epoch 8/10, Loss: 63.6806
Epoch 9/10, Loss: 53.7934
Epoch 10/10, Loss: 53.2823
Model with 3 added layers saved.
Test Accuracy: 56.90%
Confusion Matrix:
[[75 0 4 2 0 0 1 3 13 2]
[14 52 0 0 1 0 0 0 2 31]
[19 1 50 10 5 6 1 4 3 1]
[7 1 13 44 3 12 0 8 5 7]
[5 1 26 7 40 5 2 11 1 2]
[0 0 14 25 2 36 1 12 8 2]
[3 0 10 27 6 1 50 0 2 1]
[8 0 5 5 3 4 0 72 0 3]
[21 0 1 1 0 0 0 0 73 4]
[14 1 0 2 0 0 1 0 5 77]]
Classification Report:

	precision	recall	f1-score	support
airplane	0.45	0.75	0.56	100
automobile	0.93	0.52	0.67	100
bird	0.41	0.50	0.45	100
cat	0.36	0.44	0.39	100
deer	0.67	0.40	0.50	100

dog	0.56	0.36	0.44	100
frog	0.89	0.50	0.64	100
horse	0.65	0.72	0.69	100
ship	0.65	0.73	0.69	100
truck	0.59	0.77	0.67	100
accuracy			0.57	1000
macro avg	0.62	0.57	0.57	1000
weighted avg	0.62	0.57	0.57	1000