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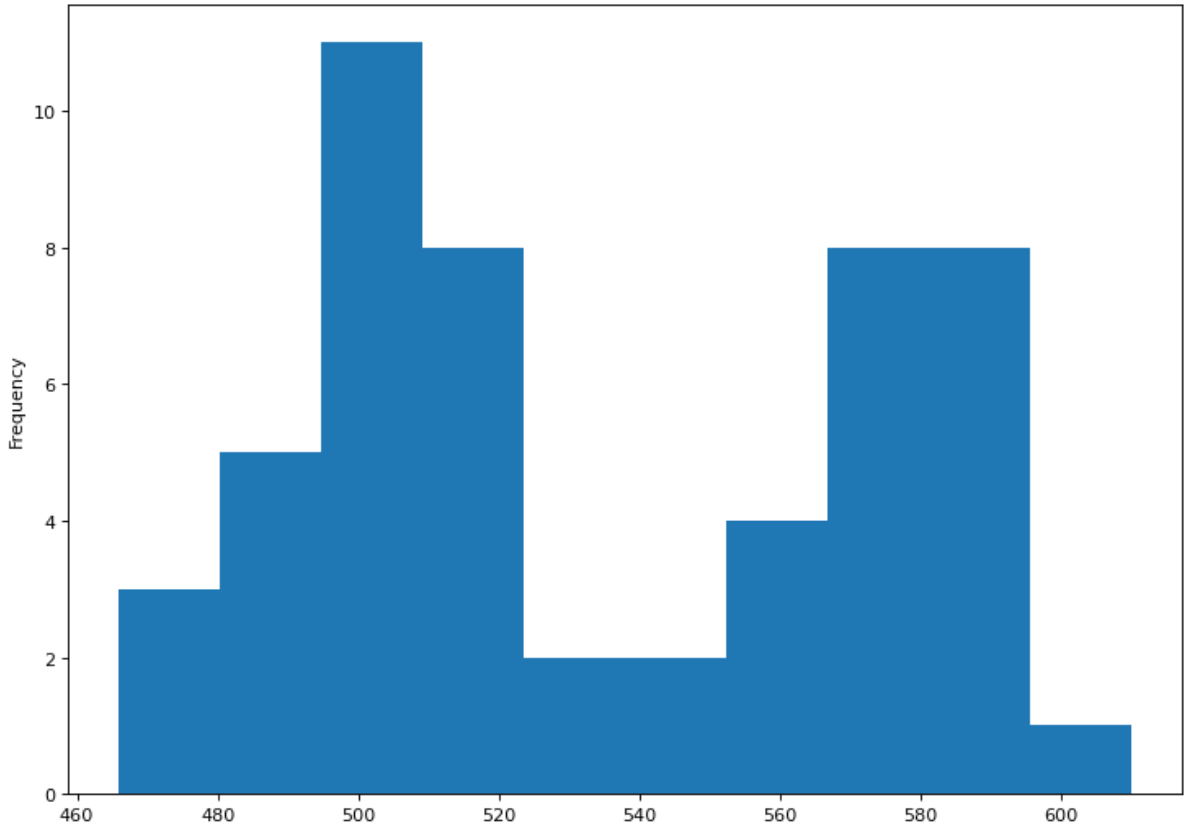
Week 11-12
Histogram Box-Plot Bullet Chart - Using Python

In [2]:
```
import matplotlib
import plotly
import seaborn as sns
import matplotlib.pyplot as plt
from matplotlib.pyplot import figure
from matplotlib.ticker import FuncFormatter
import numpy as np
import  pandas as pd
import xlrd
import squarify
#from plotnine import*
import plotly.graph_objects as go
import statistics
```

Histogram

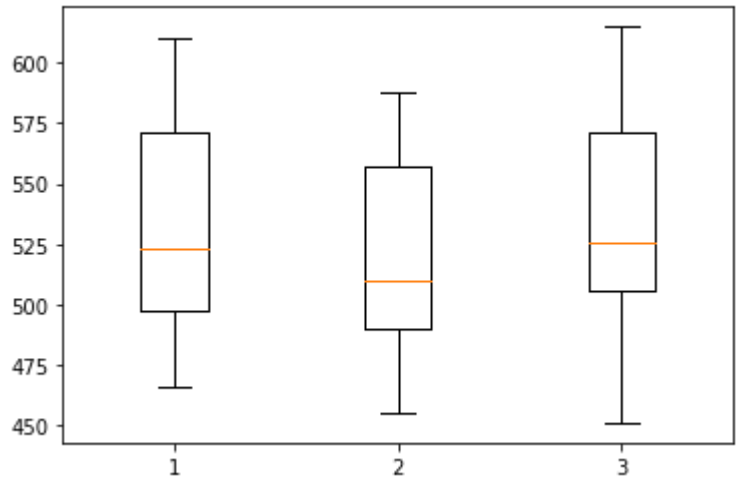
In [3]:
```
data = pd.read_csv('education.csv')
```

In [4]:
```
figure(num=None, figsize=(11, 8), dpi=80)
data['reading'].plot.hist()
plt.color = 'bold'
plt.show()
```



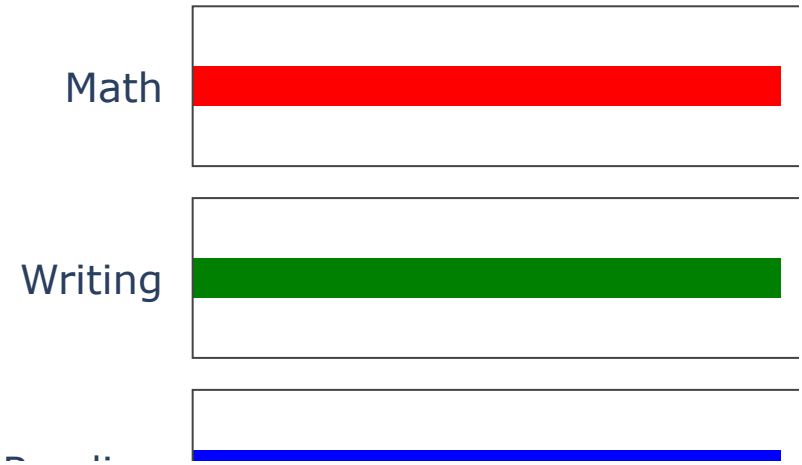
Box Plot

In [5]:
```
x = [data['reading'], data['writing'], data['math']]
plt.boxplot(x)

plt.show()
```



Bullet Chart

In [6]:
```
fig = go.Figure()


fig.add_trace(go.Indicator(
    mode= 'number+gauge+delta',
    gauge = {'shape': "bullet",
             'bar':{'color':'blue'}},
    value = statistics.mean(data['reading']),
    delta = {'reference': 600},
    domain = {'x': [0.25, 1], 'y': [0.1, 0.35]},
    title = {'text': "Reading"}))

fig.add_trace(go.Indicator(
    mode= 'number+gauge+delta',
    gauge = {'shape': "bullet",
             'bar':{'color':'green'},
             'axis':{'ticks':'',
                     'visible':False}},
    value = statistics.mean(data['writing']),
    delta = {'reference': 600},
    domain = {'x': [0.25, 1], 'y': [0.4, 0.65]},
    title = {'text': "Writing"}))

fig.add_trace(go.Indicator(
    mode= 'number+gauge+delta',
    gauge = {'shape': "bullet",
             'bar':{'color':'red'},
             'axis': {'ticks': '',
                      'visible': False}},
    value = statistics.mean(data['math']),
    delta = {'reference': 600},
    domain = {'x': [0.25, 1], 'y': [0.7, 0.95]},
    title = {'text': "Math"}))

fig.update_layout(height = 400,margin = {'t':0,'r':100, 'l':100})


fig.show()
```



In [ ]: