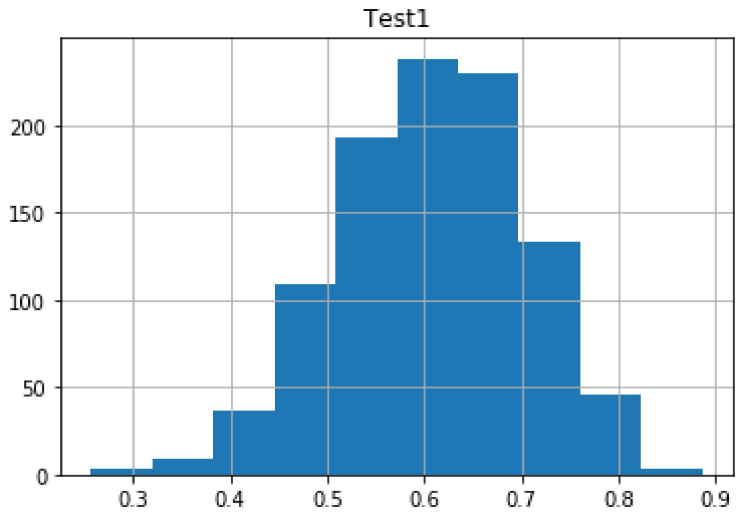
In [7]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
np.random.seed(seed=42)
data_points = 1000
df = pd.DataFrame(data = list(zip(np.random.choice(['Math','English'],size =data_
                                  np.random.beta(15,10,size=data_points),
                                  np.random.beta(30,4,size = data_points))),
                  columns=["Major",'Test1','Test2'])
df.head()
```

Out[7]:

	Major	Test1	Test2
0	Math	0.488752	0.778087
1	English	0.504609	0.894973
2	Math	0.380567	0.864508
3	Math	0.703682	0.846423
4	Math	0.383640	0.904955

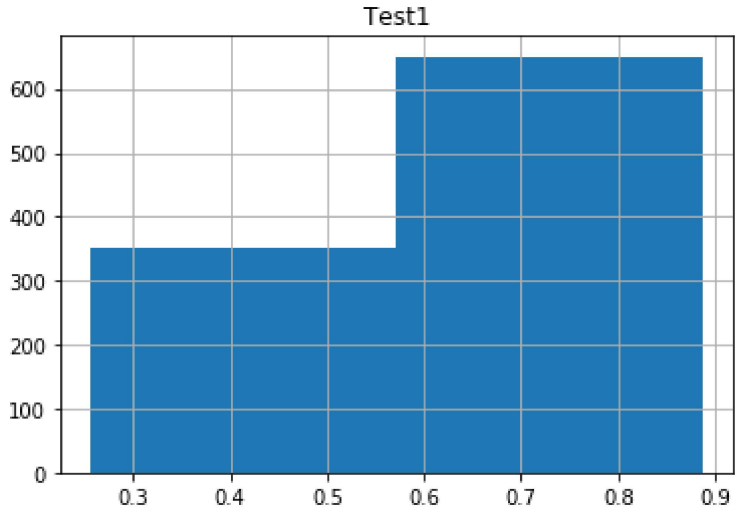
In [9]:
```
df.hist(column='Test1')
```

Out[9]:
```
array([[<matplotlib.axes._subplots.AxesSubplot object at 0x000001FD1AEBB2C8>]],
      dtype=object)
```



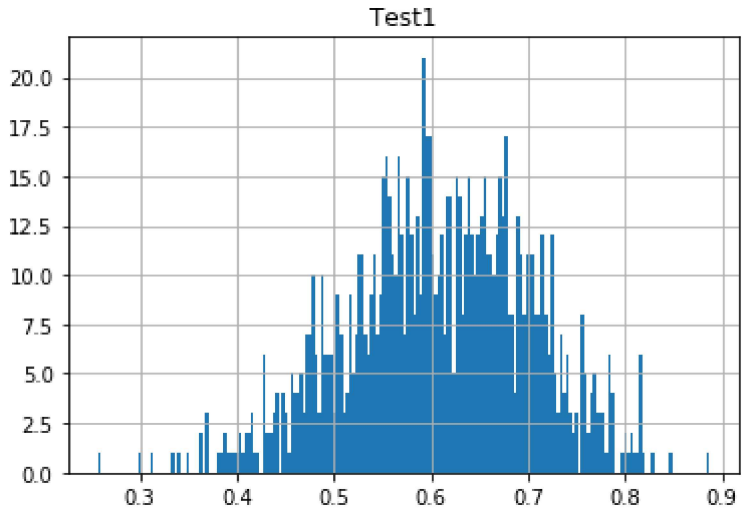
In [10]:
```
df.hist(column='Test1',bins=2)
```

Out[10]:
```
array([[<matplotlib.axes._subplots.AxesSubplot object at 0x000001FD1AEB04C8>]],
      dtype=object)
```



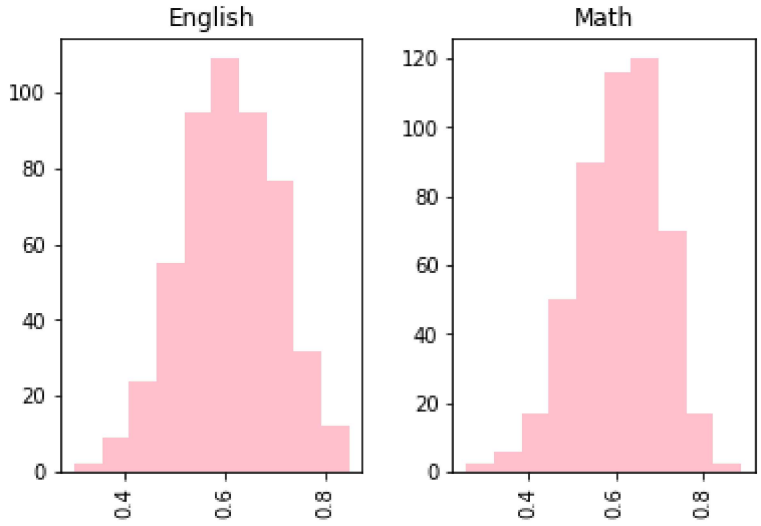
In [11]:
```
df.hist(column='Test1',bins=200)
```

Out[11]:
```
array([[<matplotlib.axes._subplots.AxesSubplot object at 0x000001FD1AFD0A88>]],
      dtype=object)
```



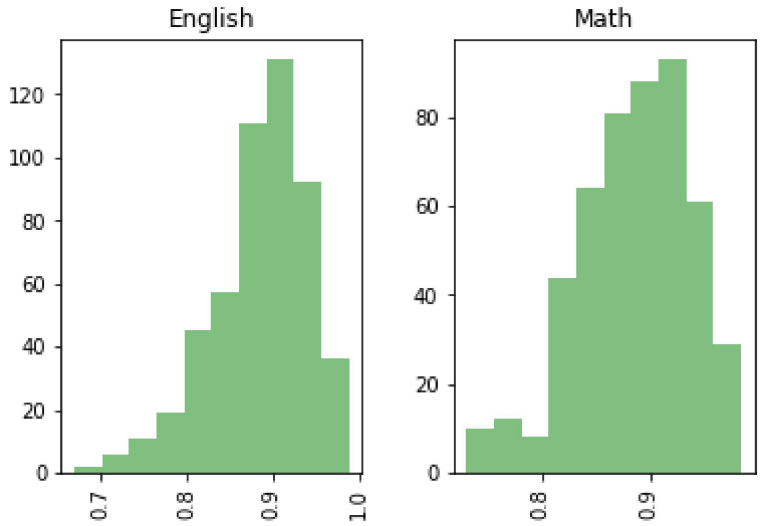
In [14]:
```
df.hist(column='Test1',by='Major',color='pink')
```

Out[14]:
```
array([<matplotlib.axes._subplots.AxesSubplot object at 0x000001FD1B3204C8>,
       <matplotlib.axes._subplots.AxesSubplot object at 0x000001FD1B458AC8>],
      dtype=object)
```



In [16]:
```
df.hist(column='Test2',by='Major',color='green',alpha=0.5)
```

Out[16]:
```
array([<matplotlib.axes._subplots.AxesSubplot object at 0x000001FD1B4CC3C8>,
       <matplotlib.axes._subplots.AxesSubplot object at 0x000001FD1C5E2588>],
      dtype=object)
```



In [ ]: