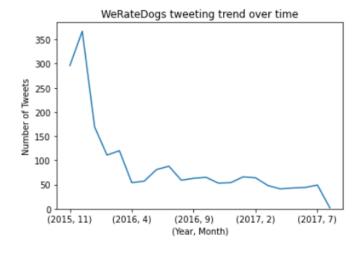
## **Analysis and insight**

## **Visualizing Data**

This is a tweets posted trend and the decreased over the time, plot between time and number of tweets.

```
In [86]:
    data = df.tweet_id.groupby([df.year, df.month]).count()
    ax = data.plot(kind='line', title='WeRateDogs tweeting trend over time')
    ax.set_xlabel("(Year, Month)")
    ax.set_ylabel("Number of Tweets")
    ax.set_ylim(0, )
    plt.savefig('tweet_trend')
```



The Twitter account started in 2015, tweeted a lot in frist year. For example, it posted around 300 tweets in the month of November 2015, which increased to around 350 tweets in exactly the next month but its tweeting activity reduced drastically in the subsequent months, averaging between 50 to 100 since April, 2016

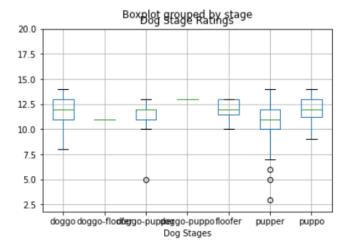


the most common source petween tweetdeck , twitter web cllient and iphone user is iphine user  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left$ 

## Ratings by Dog Stages on WeRateDogs Twitter

```
[85]: df[df['stage'] != 'None'].boxplot(column = ['rating_numerator'], by = ['stage'])

plt.title ('Dog Stage Ratings')
plt.xlabel('Dog Stages')
plt.ylim(ymax=20)
plt.show();
```



WeRateDogs appears to rate puppers lower than doggos, floofers and puppos.

Most of the dogs are rated 12/10, the highest rating received by any dog is 14/10 we can say that WeRateDogs is probably very conservative when it comes to rating a dog the highest

```
In [80]: print('Doggo')
         print('%s\t%s' % ('Mean Retweet Count',
                           round(df.retweet_count[df.stage == 'doggo'].mean())))
         print('%s\t%s' % ('Mean Favorite Count',
                          round(df.favorite_count[df.stage == 'doggo'].mean())))
         print('Floofer')
         print('%s\t%s' % ('Mean Retweet Count',
                           round(df.retweet_count[df.stage == 'floofer'].mean())))
         print('%s\t%s' % ('Mean Favorite Count',
                          round(df.favorite_count[df.stage == 'floofer'].mean())))
         print('Pupper')
         print('%s\t%s' % ('Mean Retweet Count',
                           round(df.retweet_count[df.stage == 'pupper'].mean())))
         print('%s\t%s' % ('Mean Favorite Count',
                          round(df.favorite_count[df.stage == 'pupper'].mean())))
         print('Puppo')
         print('%s\t%s' % ('Mean Retweet Count',
                           round(df.retweet_count[df.stage == 'puppo'].mean())))
         print('%s\t%s' % ('Mean Favorite Count',
                           round(df.favorite_count[df.stage == 'puppo'].mean())))
```

Doggo		
Mean	Retweet Count	7126
Mean	Favorite Count	19356
Floofer		
Mean	Retweet Count	4969
Mean	Favorite Count	13206
Pupper		
Mean	Retweet Count	2364
Mean	Favorite Count	7198
Puppo		
Mean	Retweet Count	6474
Mean	Favorite Count	21582

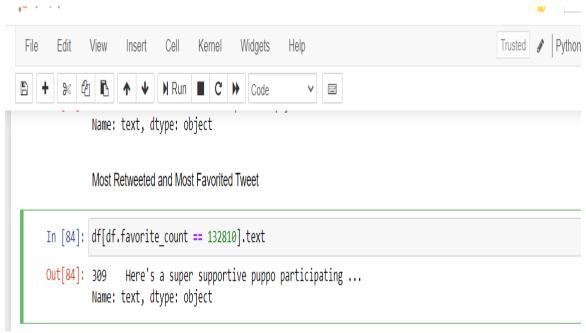
From the above table , it is evident that tweets of dogs that have increase in relweeting and favoriting of tweets having a mention of the \* dog stage e Doggo , Floofer or Puppo ) , the

exception being Pupper Pupper being a small doggo usually younger is probably less popular scompared to its older counterparts Having said that I can see a strong correlation between tweets mentioning the dog stage and its chances of being retweeted and favorited more



The top rated dog by WeRateDogs Twitter is a dog wrapped in an American flag. The rating 1776 is a reference to Events from the year 1776 in the United States. This year is celebrated in the United States as the official beginning of its nationhood, with the Declaration of Independence issued on July 4.

## Most Retweeted and Most Favorited Tweet



The most retweeted and most favorited tweet is a video of a puppo