British National Cipher Challenge 2011 Challenge 7B solution

The plaintext to challenge 7A said to expect "a columnar transposition with a twist". The cipher turns out to be very much like a scytale that is, in fact, twisted.

First, write out the ciphertext in five rows of 240 characters:

```
TsormynhemuitlThesynpddmrdtcryef...
ihIecfgestnoeeIesphaaetoreeiecaa...
momuoisTecinmwcTtirvrrheerneserr...
ertsrnonmocsyhaecoaetatimodeinsa...
isstdditpmatsinmpncimoeruusnntas...
```

Next, the twist. Twist it so that each column rotates downward by one more than the column before it:

```
T
i s
m h o
e o I r
i r m e m
s t u c y
s s o f n
t r i g h
d n s e e
d o T s . . .
i n e . . .
p . . .
```

Bring the letters that shift below the end of the original bottom line back up to the top, like they were being rotated around a cylinder (like the scytale):

Now simply read off the plaintext in columns:

```
Timei sshor tsoIm ustre cordm yfind ingso ntheT empes . . .
```