Data in Motion Pandas Challenge Week 11

```
In [1]:  import pandas as pd
         import json
```

Read in the JSON file.

```
In [2]:  df = pd.read_json('nested_list.json')
```

```
In [3]:  df.head()
```

Out[3]:

	school_name	class	students
0	ABC primary school	Year 1	{'id': 'A001', 'name': 'Tom', 'math': 60, 'phy...
1	ABC primary school	Year 1	{'id': 'A002', 'name': 'James', 'math': 89, 'p...
2	ABC primary school	Year 1	{'id': 'A003', 'name': 'Jenny', 'math': 79, 'p...

Flatten the nested list from JSON object.

```
In [4]:  df2=pd.json_normalize(df.students)
```

```
In [5]:  df2.head()
```

Out[5]:

	id	name	math	physics	chemistry
0	A001	Tom	60	66	61
1	A002	James	89	76	51
2	A003	Jenny	79	90	78

Create a dataframe that includes the flatten list and all original columns

```
In [6]:  dfAll=df2.copy()
```

```
In [7]:  dfAll['school_name']=df.school_name
```

```
In [8]:  dfAll['class']=df['class']
```

```
In [9]:  dfAll.head()
```

Out[9]:

	id	name	math	physics	chemistry	school_name	class
0	A001	Tom	60	66	61	ABC primary school	Year 1
1	A002	James	89	76	51	ABC primary school	Year 1
2	A003	Jenny	79	90	78	ABC primary school	Year 1

```
In [ ]:
```