**Prep 2 – Explanations of Schizophrenia**

**Biological explanations**

* ***Genetics***

**Task 1: Use the Powerpoint** (on psych205 under Paper 3 > Schizophrenia) **to answer these questions:**

1. According to the general genetic hypothesis what increases your chance of developing the disorder?
2. What is the likelihood of developing the disorder in the general population?
3. According to Gottesman (1991), what is the percentage concordance rate of developing the disorder if one parent has the disorder?
4. What 4 research methods are used to determine the genetic influence on schizophrenia?
5. What does concordance rate mean?
6. What were the findings of Gottesman’s (1991) study of MZ and DZ twins? What does this suggest about a genetic link in schizophrenia?
7. What were the results of Kety and Ingraham’s adoption study (1992)?
8. Why does it help our understanding of genetics to look at children brought up away from their biological parents?
9. Gene mapping (The Genome project) has identified a number of candidate genes for schizophrenia and the disorder could be described as polygenic. What does polygenic mean?
10. What is a candidate gene? Can you give an example of one candidate gene that has been identified in schizophrenia?
11. There is strong evidence that shows schizophrenia is the result of multiple factors (genes + environment). This is also known as the diathesis stress model. How does the diathesis stress model explain schizophrenia?

HELP: If you are still not sure about genetic explanations this video will help to explain the basic genetic explanations: <https://www.youtube.com/watch?v=1utzV5Pi2SY>

**Task 2:** **Watch this short video** and based on what Dr. Pearce discusses, **write summarised notes** on genetic influences on the development of schizophrenia. <https://www.youtube.com/watch?v=HT6gB9VLRRk> (only watch up to 2 min 7secs)

**Continues on next page**

**Task 2:** **Make brief notes from the Powerpoint on which areas of the brain are affected by increased/decreased levels of dopamine.**

* ***Neural correlates (areas of the brain associated with schizophrenia)***

**Using the Powerpoint and the information booklet make bullet point notes under the following headings**:

* How the brain of schizophrenics are investigated
* Enlarged ventricles
* superior temporal gyrus and anterior cingulate gyrus

**Psychological explanations**

* **Cognitive explanations – dysfunctional thought processing**

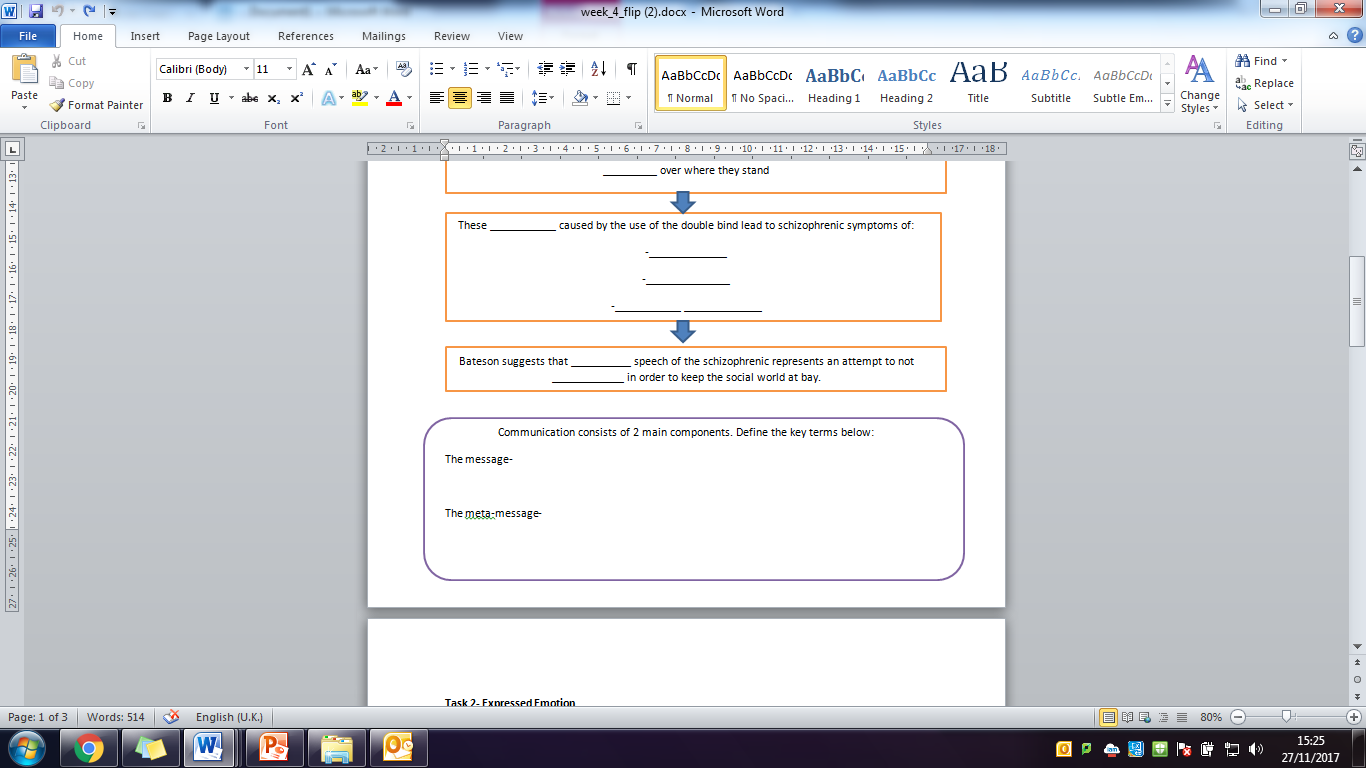
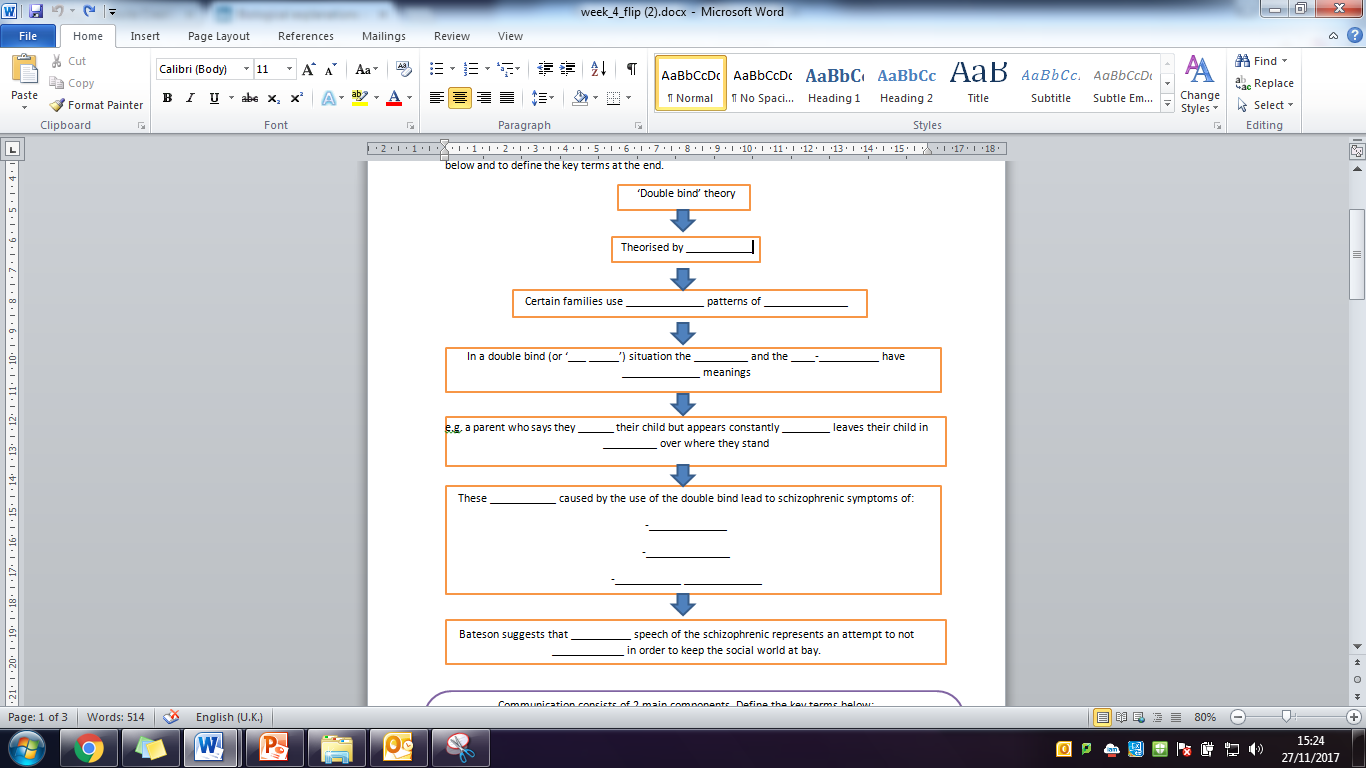
**Task 1:** Using your schizophrenia pack make notes/draw a mindmap on the cognitive explanation. You may want to draw pictures to accompany your notes to help you remember the key concepts.

You must include these sub headings:

* What is a cognitive explanation focused on?
* Metarepresentation
* Central control
* Bentall- attentional biases
* The link to the dopamine hypothesis

**Continues on next page**

* **Family Dysfunction (double bind and expressed emotions)**

**Double bind theory:** Using the information in your pack on Bateson’s ‘double bind’ theory, complete the flow diagram of the theory below and define the key terms at the end.

**Continues on next page**

**Expressed Emotion:** Answer the questions below to make notes on Expressed Emotion (EE) for your folders.

1) High EE environments are characterised by what behaviours?

2) What effect can a high EE environment have for people with schizophrenia?

3) What did Vaughn and Leff’s (1976) research find?

4) What did Butzlaff and Hooley (1998) find that supported this?

5) How can EE also play a part in the cause of the disorder? Mention the diathesis stress model in your answer.

6) Can you think of any reasons why there might be a higher level of expressed emotion within families when one member is suffering from schizophrenia?