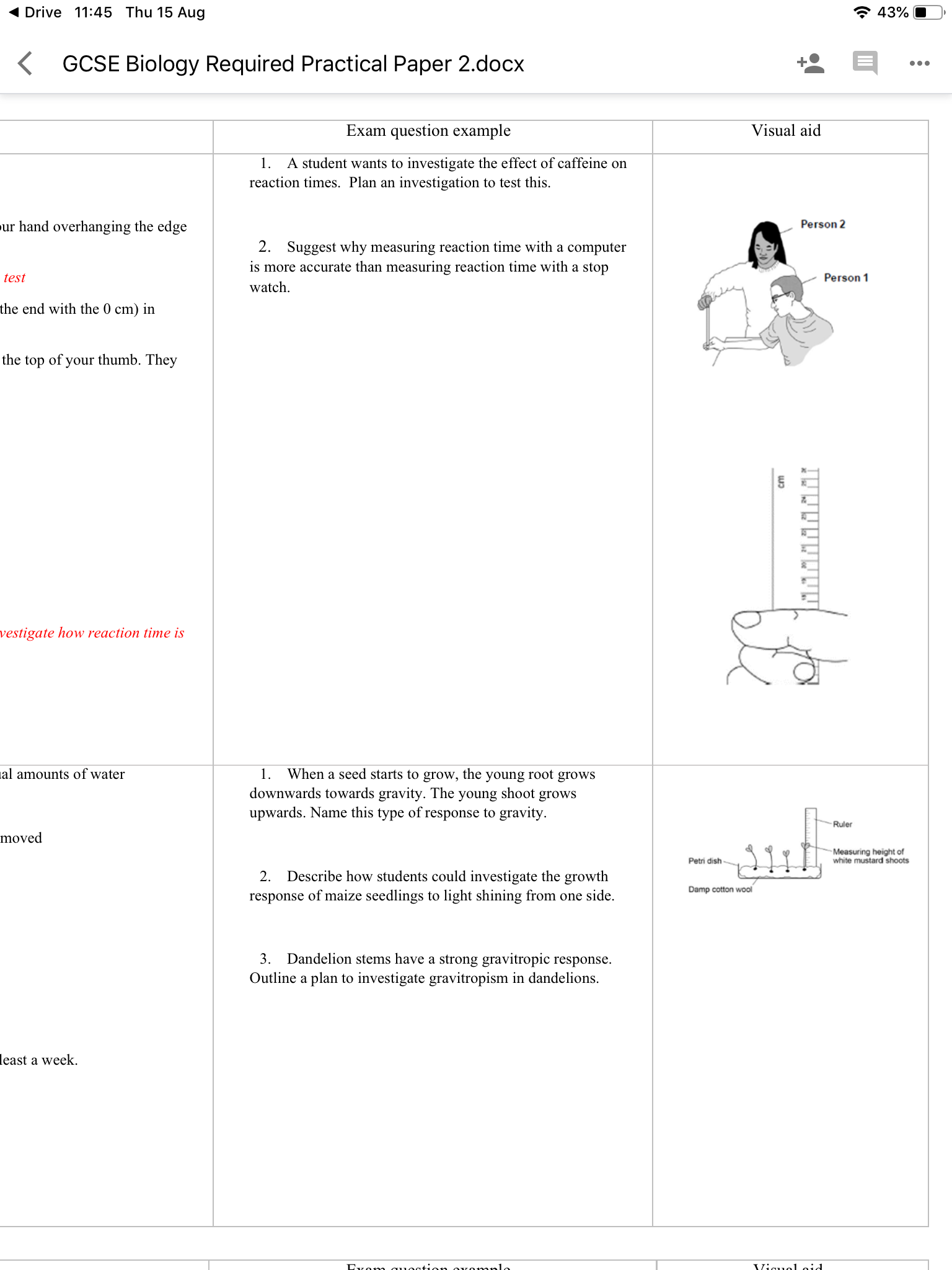
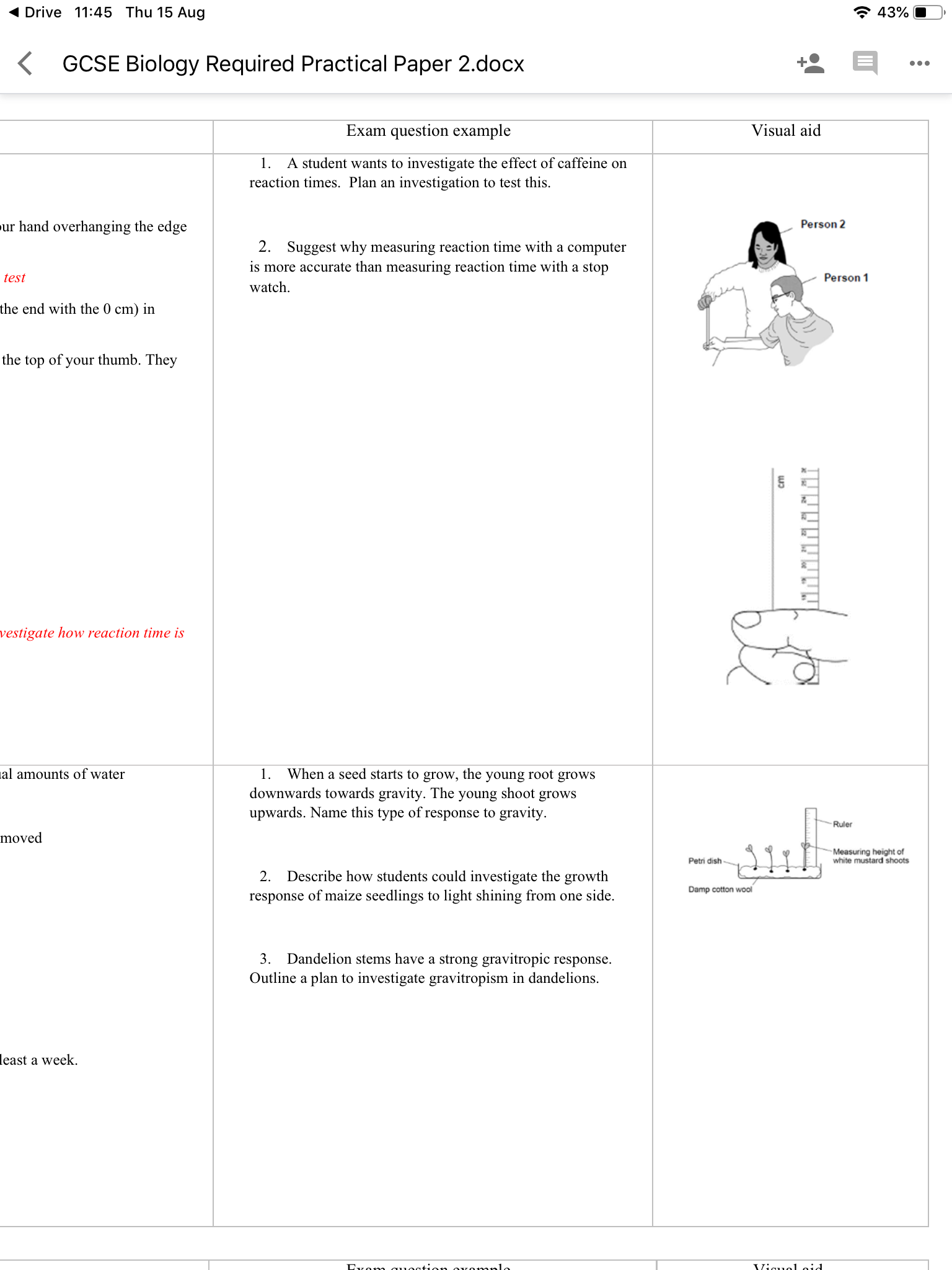
**AQA Biology**

**Required Practical 7- Reaction Time**

**Tip**- Don’t confuse reaction speed with reaction time. Faster reactions = decrease in time!

**Glossary**

Stimulus-

Receptor-

Effector-

Reflex-

Caffeine-

Reaction time-

***Aims***:

* To plan and carry out an experiment to investigate how one factor affects human reaction time.
* To identify variables to change and control in an investigation.
* To write a hypothesis predicting the effect that changing one variable will have on your results.

**Variables**

**Independent Variable-** The variable I will change is…….

**Dependent Variable-** The variable I will measure is…..

**Control Variables-** Three factors I will keep the same are…

**List 3 different factors which could affect reaction time**

**1.**

**2.**

**3.**

**Hypothesis**- *Now choose one of these to test and write your hypothesis below.*

Reaction time is affected by………………………………………………………………………………………………………………………

**Method**

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

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**Success Criteria**

* Written a clear, numbered method
* Stated equipment you will use.
* Stated how you will measure reaction time using a ruler.
* Explain how you will convert the distance into reaction time
* Explain how many times you will repeat the experiment and why.

**Results Table- *Draw your table here***

**Exam Practice**

1. Explain the difference between precise and repeatable results (2 marks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Suggest why measuring reaction time with a computer is more accurate than measuring reaction time with a stop watch. (2 marks)

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