



Subject		Science		
Title/Topic		Format	Length	WC
Paper 1 – Biology & Physics		MCQ	45min	21 November
Paper 2 – Biology & Physics		Written paper	45mins	21 November

In this Advent assessment I will be asked to show I can...

Biology content

- Recall the organs of the male and female reproductive systems
- Explain the role of the reproductive organs
- Describe the secondary sexual characteristics that appear during puberty
- Describe the hormones in reproduction and their role.
- Describe the menstrual cycle and explain what is happening during each part.
- Identify and describe the role of the reproductive organs of a plant.

Physics content

- Recall the units for force, distance, velocity and acceleration
- Describe friction and explain how to reduce it
- Calculate speed using the equation $\text{Speed} = \text{Distance} \div \text{Time}$
- Identify balanced and unbalanced forces
- Calculate resultant forces
- Calculate extension of a spring
- Describe an elastic material
- To recall what a spring constant is and the effect on the spring constant of having springs in series and parallel
- Recall scalar and vector quantities
- Plot a Distance – Time graph
- Interpret Distance – Time graphs to describe the motion of an object
- Interpret Velocity-Time graphs to determine the motion of an object
- Calculate acceleration using the equation
 $\text{Acceleration} = \text{Change in Velocity} \div \text{Time}$
- Describe the moment of a force and identify a greater turning effect
- Give examples of useful and non-useful friction



What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Complete look, cover, write and check on the knowledge organiser statements from the life booklet and the forces and motion booklet.
2. Make flash cards of key words and their definitions.
3. Read through the lesson content in the booklets and make notes to help you learn the information.

What useful websites/resources could I use to help me prepare?

[Reproduction - KS3 Biology - BBC Bitesize](#) – use the KS3 science bitesize website to revise the content. You can try the learning quizzes and watch the videos to help you.

Forces and motion revision:

<https://www.bbc.co.uk/bitesize/topics/z4brd2p>