

Lower School Report 3 | Year 8 Summer Term

Attainment Descriptors

Developing	Improving	Meeting	Exceeding
Students rarely demonstrate that they have met any of the criteria.	Students occasionally demonstrate that they meet some of the criteria for the term.	Students demonstrate that they regularly meet most of the criteria below.	Students almost always demonstrate that they meet all criteria. Often, they will take advantage of opportunities to broaden their understanding of the subject.

Year 7 Science Students work in rotation throughout the year. This means that not all students will have studied the same topics at the time of report issue. Below is a table detailing which topics have been covered by each group. If students have not covered a topic this term, they will do so next term.

Biology Genes	Chemistry Earth	Physics Engineering Challenge

Subject	Learning Criteria	Resources to support your child at home
Biology Genes	Students can describe the theory of natural selection. Students can explain why species evolve over time. Students can explain why a species becomes extinct. Students can describe techniques to prevent extinction. Students can describe the relationship between DNA, genes and chromosomes. Students explain how a DNA mutation may affect an organism and its future offspring. Students can describe the differences between dominant and recessive alleles. Students can describe some advantages of genetic modification.	https://www.bbc.co.uk/bitesize/topics/zpffr82/articles/zc8txbk https://www.bbc.co.uk/bitesize/topics/zpffr82/articles/zyxtm39

Chemistry Earth	Students can state the names and percentages of the gases in the Earth's atmosphere. Students can describe and explain what is meant by global warming. Students can explain the carbon cycle. Students can describe how human activities affect the carbon cycle. Students can describe how global warming can impact climate change. Students can describe how the Earth's resources are extracted and justify the choice of extraction method based on reactivity. Students explain why recycling some materials is particularly important.	https://www.bbc.co.uk/bitesize/topics/z3fv4wx/articles/zkbbbt https://www.bbc.co.uk/bitesize/topics/z3ksp4j/articles/zwdxtrd
Physics Engineering Challenge	Students can plan and develop a solution to a real world issue. Students can describe the steps taken to come up with their solution. Students can work together as a team to solve the problem. Students understand the different ways to present their ideas. Students are able to present and discuss their solution to the class. Students are able to present and discuss their solution to the wider community as part of the Summer fair.	https://www.bbc.co.uk/bitesize/articles/znj9scw https://www.bbc.co.uk/bitesize/articles/zrwqy9q