

Felpham Community College – Key Stage 3 S of W

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| Subject: Science | Year:8 | Leader: D Leonard |
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| Autumn Term 1 | Activities | Homework |
|---|--|--|
| Investigative skills assessment Biology Topic: Health and lifestyle. Chemistry Topic: The Periodic table. Separation techniques. | Learning about healthy and unhealthy diets. Researching effects of an unhealthy life style. Describe the process of digestion. Learn about patterns in the Periodic Table and how mixtures are separated. | A homework project will be set for students to discover more about famous scientists and their work. Also, homework will be set by individual class teachers, weekly with an emphasis on factual recall. |
| | | Assessment Plans Students will be assessed on their investigation skills at the start of the term. |
| Literacy / Numeracy / ICT: Skills based will be developed through Investigative skills assessments. | | |

| Autumn Term 2 | Activities | Homework |
|--|---|---|
| Physics Topic : Energy Chemistry: Metals and acid. | Explain what brings about transfers in energy. Describe how energy is transferred by conduction, convection and radiation. Learn about the different reactions of metals. Also looking at properties of polymers and composites | A range of homework will be set to help students develop their own learning and understanding. Homework will also provide an opportunity to extend their knowledge. |
| | | Assessment Plans Students will be assessed by a formative assessment and an extended writing task and students will sit an end of topic test next term. |
| Literacy / Numeracy / ICT Skills based will be developed through Investigative skills assessments. | | |

| Spring Term 1 | Activities | Homework |
|--|---|--|
| Physics Topic: Electricity and magnetism Physics Topic: Motion and pressure. | Describe how electricity is generated in a power station. Be able to calculate power Describe how charged objects interact. Learn about electric circuits and their components. Describe how magnets interact and the properties and uses of electromagnets. Describe relative motion. Explain why some things float and some things sink, using force diagrams. Apply ideas of pressure to different situations. Calculate the moment of a force. | A homework project will be set for students to discover more about habitats and climate change. Other homework will be set by individual class teachers. |
| | | Assessment Plans Students will be assessed by an end of topic test on metal reactions. |
| Literacy / Numeracy/ICT Skills will be developed through investigative skills assessments. | | |

| Spring Term 2 | Activities | Homework |
|--|---|--|
| Biology Topic: Adaptations and inheritance. The Earth. | Describe the processes of photosynthesis and respiration. Describe the interdependence of organisms and how they adapt to environmental change. Describe how variation in species occurs and how characteristics are inherited. Describe the structure of the Earth. | Homework will be set by individual class teachers on a weekly basis throughout the term. |
| Literacy / Numeracy / ICT Skills will be developed through Investigative skills assessments, | | |

| Summer Term 1 | Activities | Homework |
|---|--|---|
| Biology: Ecosystems. | Compare the energy values of food and fuels. | Homework will be set by individual class teachers on a weekly basis. |
| | | Assessment Plans Students will be assessed by an end of topic test on ecosystems. |
| Literacy / Numeracy / ICT will be developed through Investigative skills assessments, | | |

| Summer Term 2 | Activities | Homework |
|--|---|---|
| This term will be given over to extended projects which pupils will design and carry out under the supervision of their class teacher. | Project based on a scientific concept which pupils will carry out | Homework will be set on a weekly basis by individual class teachers. |
| | | Assessment Plans There will be an end of year exam during Summer Term 2 |

Website / Resources School Moodle site, KS3 BBC Bitesize

Extension: Why not research using YouTube, other websites and through books topics which you really enjoy?
Ask your teachers for recommended extra reading throughout the year.