



## KNES Primary School Science Course Outline Year 6 Term 2

### **Term Overview.**

This term Year 6 students will study Different Changes and Changing Circuits. They will learn about dissolving, evaporating, condensing, melting and freezing as changes which can be reversed. They will learn that a complete circuit is required for a device to work, understand that switches can be used to control devices and know that generally metals are good conductors of electricity and plastics are poor conductors.

There will be an assessment after each unit and a final exam at the end of the term.

Homework will also be given regularly and non-completion of homework will affect the student's final mark.

### **Class Rules:**

Students, please remember:

- If you are absent, it is your responsibility to get your homework Assessment from a class and submit it when you return.
- Homework left at home will be considered as not being done.
- If you miss a test or deadline on an Assessment, you will receive 0% unless you can provide a letter from a medical doctor to show you were not able to attend.
- It is your responsibility to come to class with the necessary books and other items- they are of no value to you sitting at home.
- You are to use washrooms before school and during scheduled breaks. You are not to be asking to leave class to use the washroom except in 'emergencies' which should not occur often.
- When you hear the bell at the start of the day or at breaktime, line up immediately.
- Be sure to buy food in the cafeteria before the last minutes of your break; you cannot bring the food and/or drink into class.

### Unit Outline Science

Week	Task/Topic/Area	Learning Outcome. Students will be able to:-
1	Different changes. Reversible and irreversible changes.	<ul style="list-style-type: none"> <li>• Explain that some changes that occur when materials are mixed cannot easily be reversed</li> <li>• Make careful observations, record these and explain what happened using scientific knowledge and understanding</li> </ul>
2	Heating and cooling	<ul style="list-style-type: none"> <li>• Explain that heating some materials can cause them to change</li> <li>• Explain that cooling some materials can cause them to change</li> </ul>
3	Burning materials	<ul style="list-style-type: none"> <li>• Explain that when materials are burned, new materials are formed</li> <li>• Explain that the changes that occur when most materials are burned are not reversible</li> <li>• Recognise and Assess hazards and risks in burning materials</li> </ul>
4	Unit Assessment.	
5	Changing circuits	<ul style="list-style-type: none"> <li>• Explain that the brightness of bulbs, or speed of motors, in a circuit can be changed</li> <li>• Explain that care needs to be taken when components in a circuit are changed to ensure bulbs/motors do not burn out</li> </ul>
6	Changing circuits	<ul style="list-style-type: none"> <li>• Explain that there are conventional symbols for components in circuits and these can be used to draw diagrams of circuits</li> <li>• Know that circuit diagrams, using these symbols, can be understood by anyone who knows the symbols and can be used for constructing and interpreting circuits</li> </ul>
7	Changing circuits	<ul style="list-style-type: none"> <li>• Explain that the brightness of bulbs in a circuit can be changed by changing wires in a circuit</li> <li>• Suggest a question to investigate, to decide what to do and what equipment to use to test this</li> <li>• Make fair comparisons and draw conclusions</li> </ul>
8	Changing circuits UNIT Assessment	<ul style="list-style-type: none"> <li>• Explain observations in terms of knowledge about electrical circuits</li> </ul>
9	Term Review Practice SATS exams	<ul style="list-style-type: none"> <li>• review of major elements of term</li> </ul>
10	Exam Week	<ul style="list-style-type: none"> <li>• students will receive practice tests based on the kinds of questions they will see on the</li> </ul>

		exam to ensure they are familiar with what they to do on the exam.
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### Term Assessment Table for Science

	Description	% of term mark
Assessment 1	Unit Assessment result – Different Changes	10% of final term grade
Assessment 2	Unit Assessment result – Changing Circuits	20%
During the term	Participation in classroom exercises and open discussions.	10%
During the term	Ability to conduct experiments	5%
During the term	Completion of all Homework	5%
Assessment 3	Final exam	50%