

## Fertilizer Lesson plan 3 & 4

**Health and wellbeing** I am learning to assess and manage risk, to protect myself and others, and to reduce the potential for harm when possible. HWB 0-16a / HWB 1-16a / HWB 2-16a / HWB 3-16a / HWB 4-16a.

**Science** I can help to design experiments to find out what plants need in order to grow and develop. I can observe and record my findings and from what I have learned I can grow healthy plants in school. SCN 1-03a I have collaborated in the design of an investigation into the effects of fertilisers on the growth of plants. I can express an informed view of the risks and benefits of their use. SCN 2-03a SCN 2-02a Through carrying out practical activities and investigations, I can show how plants have benefited society. SCN 2-02b Second level skills. While conducting experiments, children are able to safely use simple tools, equipment, apparatus and procedures. They make observations, collect information and make measurements accurately using relevant devices and standard units and ICT where appropriate. They can select, with assistance, appropriate methods to record their findings

**Geography** I can discuss the environmental impact of human activity and suggest ways in which we can live in a more environmentally responsible way. SOC 2-08a

**Literacy** By considering the type of text I am creating, I can select ideas and relevant information, organise these in an appropriate way for my purpose and use suitable vocabulary for my audience. LIT 2-26a

**Technologies** Throughout all my learning, I can use search facilities of electronic sources to access and retrieve information, recognising the importance this has in my place of learning, at home and in the workplace. **TCH 2-03b** I can create, capture and manipulate sounds, text and images to communicate experiences, ideas and information in creative and engaging ways. **TCH 1-04b / TCH 2-04b**

### Resources Lesson 3 & 4

The main risks come from the pupils using the green screen equipment. This needs to be supervised at all times and wires and cords should be placed so they do not present a trip hazard. Children need to be shown how to use the equipment safely and monitored during its use.

### Learning Intention.

**Lesson three & four To create a green screen technology film to show the risks and benefits of fertilizer use.**

#### Lesson three

Intro.

Review the results of the fertilizer experiment from lesson 2. Hopefully this will have shown that fertilizers do help plants to grow. Explain to children that though fertilizers do help plants to grow they can cause an issue if used a lot or if there is waste fertilizer which does not get used.

Main

Show children this video <https://www.youtube.com/watch?v=UGqZsSuG7ao> and get them to do some research about what Eutrophication is. Explain that you want them to write a script to explain what is good about fertilizers but also what the risks are by including what happens when waste fertilizer causes Eutrophication in their film. Show them an example of a film which was created to try to do that as an example <https://www.youtube.com/watch?v=70zWeDhTvyY&feature=youtu.be> Explain this film can be done as a news report, a story or a documentary. Show the children some examples of storyboards. In mixed ability groups get the pupils to write a story board of their ideas and script. Pupils also need to think about the photos or drawings they will need to have for the back ground for each section of their green screen film. Children can use hand puppets or make paper puppets to use in the film or star in the film themselves.

Plenary

Pupils can share their storyboards with the class.

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#### Lesson Four

Intro.

Remind children of the learning intention and review where they are all up to. Show the children how to use the green screen software.

Main

Children continue with storyboards and use the toolkit to ensure they have fulfilled the success criteria.

Once their storyboard is checked they can practice their film and then go and film it. It is best if this is in a separate room to the classroom to reduce noise. Another adult needs to be in the room to supervise this.

Plenary

Share one of the films with the group.

Toolkit for success criteria	Tick when completed.
Have you completed a storyboard which uses up to 7 backgrounds?	
Have you made your storyboard and script entertaining for the audience?	
Have you explained why fertilizers are good in your storyboard?	
Have you explained some of the risks of using fertilizers in your storyboard?	
Have you got all of the background pictures you need for your storyboard?	
Did everyone do something to work on the storyboard?	
Did everyone do something to create your films?	
Does everyone know how to use the green screen software?	