



GRASS HEADS

OUTLINE

Springtime lesson plan to explore plants and nature.

Make Grass Heads and create your own STEM investigation into plants.

MAKING GRASS HEADS

Create the grass heads following the instructions on Red Ted Art.

OBSERVING AND DESCRIBING SEED GROWTH

Over the next week to two weeks make observations on the growth of the grass seeds in the heads.

You could use a Homemade Garden Journal or one of the Grass Head Images attached printed for each day.

Add observations on what is happening where you can see growth etc...

OBJECTIVES

- Observe and describe how seeds grow into mature plants.
- Explore the requirements of life and growth in plants.

MATERIALS

- Old tights/ stockings.
- Some compost or earth.
- Grass seeds.
- Rubber band or thread.
- For decorating - googly eyes, felt.
- A pot for your grass head to sit in!

YOUR NOTES

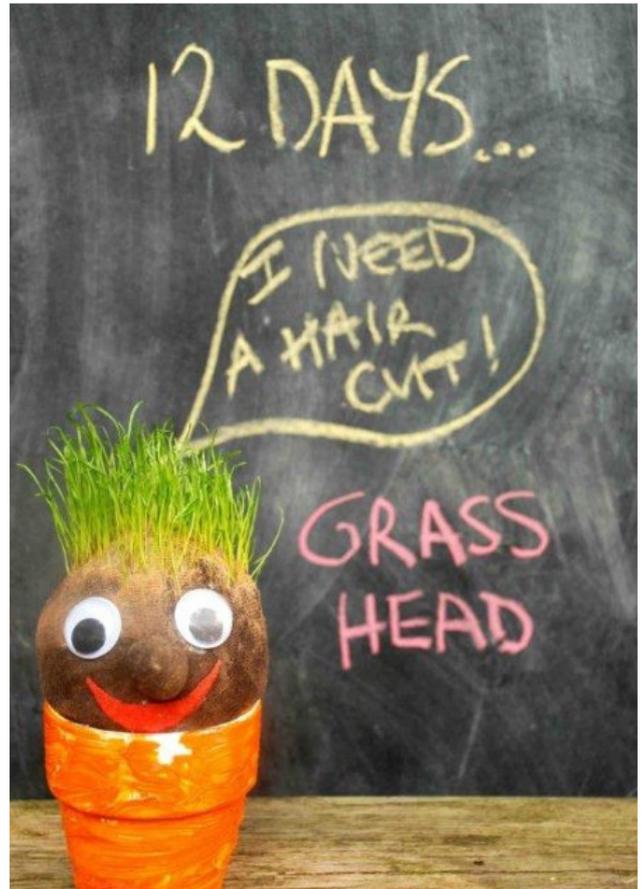
STEM INVESTIGATION INTO EXPLORING THE REQUIREMENTS OF LIFE AND GROWTH IN PLANTS

For this investigation, you will need to create a number of grass heads depending on how many elements that effect growth and life of plants are being investigated after planning the investigation.

Possible areas to investigate - water, light, temperature, quantity of air

CONDUCTION A STEM INVESTIGATION

- Start by asking questions about what helps plants grow. Brainstorm these ideas
- Take these ideas and plan an investigation on how they can see if it is an effect.
- Remind about keeping things constant - how would they keep the same amount of grass seeds? Temperature if they were investigating water levels etc..
- Build the investigations.
- Take a photograph and upload - if you have the facility you could set up a time lapse if not then take photographs once or twice a day over the following week or two weeks.
- Record observations in a journal these can be words, pictures measurements etc...
- When the control grass head needs a hair cut - compare the other grass heads and see what effect the different conditions have had on the growth and life of the plants.
- Produce a slide show with automations of the slides to show the development of the plants.
- Graph and show the results for the different conditions.
- Make conclusions and present the results of the Investigations into what plants need to grow.



STEM AREA IDEAS:

- Science - Plant Science what are the requirements for life and growth of plants.
- Technology - Photographing and uploading to create a slideshow showing the growth of the plant in different conditions.
- Engineering - Development of the conditions - how will they make sure that the plants are at different temperatures, with less water etc..
- Mathematics - Measuring of the growth of the plants over time and graphing the results

SKETCH YOUR OBSERVATIONS EVERY 2 DAYS

