



# 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

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## 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

