

Imaging Partnership

MINT PRACTITIONER RESOURCES

Time Lapse

LESSON ONE

What you will learn:

- How to grow beansprouts (or a similar fast growing plant).
- How to document the growth of the beansprouts using a spread sheet and a chart.
- What a photo time lapse is.
- The best ways to create a time lapse and how to make one of the beansprouts.

What you should be able to do:

- Demonstrate your understanding of growing beansprouts.
- Demonstrate your understanding of documenting the growth of the beansprouts by creating your own spread sheets and charts to demonstrate the measurements.
- Demonstrate your understanding of what a time lapse is and how to create one.
- Make your own time-lapse videos of the growth of the beansprouts.

Growing Beansprouts.



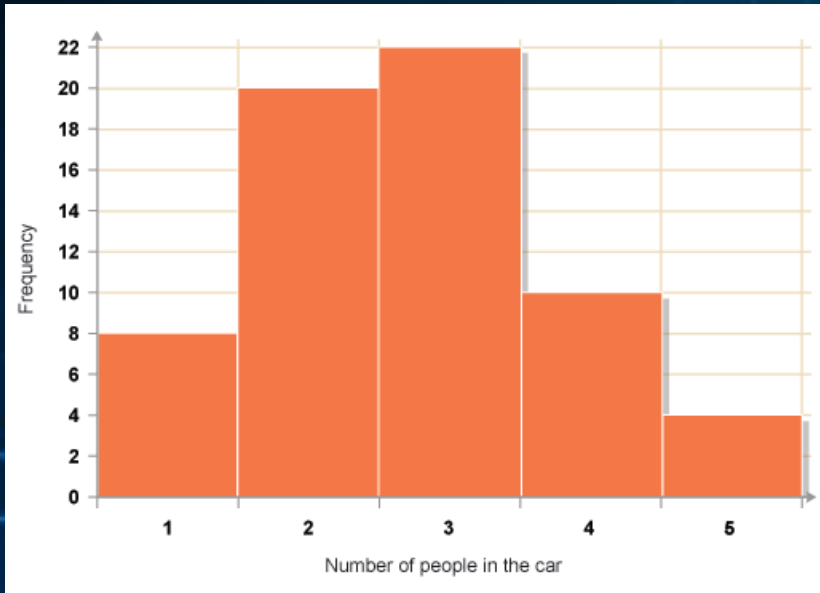
- To demonstrate time lapse we need a subject that changes slowly over a long period of time.
- A great subject for this is the growth of a beansprout. In pairs you will need to prepare a pot with compost and drainage and plant your beansprouts.
- Remember to water you plant regularly and make sure it has enough sunlight.

Measuring and recording

- We need to keep accurate records of how much the plant has grown each day.
- Create a spreadsheet that has a column for the day and a column for the height.
- Make sure to measure from the same point each day.

Date	Measurements (mm)
29/05/2015	4
30/05/2015	
31/05/2015	
01/06/2015	

Growth analysis



- A chart is a great way to visually display the written information.
- In your groups start to create a bar chart that shows the growth day-to-day, remember to keep it updated as you record your measurements.

What is a Time Lapse?

- A time lapse is an effective way of showing small changes that occur over a long period of time but in a short final video.
- It is a sequence of images at set intervals, when the frames are shown in quick succession, the action seems much faster.
- A time lapse can show us changes in an object that are too small to notice day-to-day, i.e a tree growing.

What is a Time Lapse?



How to make a time lapse

- To create a timelapse, you must keep your camera at the exact same place for every photo. It may be an idea to place some tape or blu tack on a surface to show you exactly where to put your camera each time. If you have a tripod then it would be good to use it as it keeps the camera stable.
- The photos need to be taken at regular intervals, for this it needs to be done once a day, try to take your photo at the same time every day i.e. first thing in the morning.

How to make a time lapse



- Ensure your camera position is in a place with good lighting that is consistent, i.e. bright indoor light.
- The photos need to be the same quality so look back at your photo and compare it to the one from the day before. It may be a good idea to take 2 each day to make sure you have a good quality image.
- Make sure you have your camera on the same settings for each photo, you don't want your flash on in one but not the next.

Time Lapse Activity

- Now it is time to have a go yourself.
- Follow the timelapse rules in the previous slides to accurately document the growth of your beansprout.



Time Lapse Activity

- Once you have collected all of your photos, you can use computer software to make them into a time lapse video.
- Most video editing software requires the images to be saved with a number order so you may need to go through and select your best photo from each day and rename them in number order.
- The more photos you have = the smoother the video.
- You also need to think about how long the final video will be 25 photos make one second of video so divide the final number of photos you have by 25 and that is how many seconds long your video will be.

Comparing Results.

- The time lapse you will create will support the spreadsheets and charts you have created by documenting the visual changes that occurred.



So what have we learned?

- We learned how to grow beansprouts (or a similar fast growing plant).
- We learned how to document the growth of the beansprouts using a spread sheet and a chart.
- We now know what a photo time lapse is.
- We now know the best ways to create a time lapse and how to make one of the beansprouts.