

Think Science! Checklist for Years 7-10

Before you create your video, you should construct a **storyboard** which indicates what you will show for each scene and what you will say for that scene.

After creating your storyboard, and during your filming process this checklist will help to ensure you have included everything. Print it out and put a tick against each item to check you have included it in your storyboard.

Questioning and predicting



We have:

- stated the scientifically testable question or aim of our investigation
- presented a summary of the science and scientific concepts that relate to our investigation
- proposed an informed and testable hypothesis (what we think will happen based on our research)

Planning and conducting



We have:

- identified the independent and dependent variables (what we changed and what we measured) and described how we measured them
- described how other variables were kept the same to ensure a fair test
- stated safety risks and any ethical issues for our investigation, and explained how we minimised these risks and issues (risk assessment)
- included photos or video to clearly show the set-up of our equipment for our investigation (equipment)
- clearly described the logical steps we followed to carry out our investigation (method)
- included photos or video showing our team carrying out our investigation and recording the results

Processing, modelling and analysing



We have:

- presented an appropriate, well-organised and easily readable table of all our observations and accurate measurements, including our trial averages (results)
- included an appropriate, easily readable graph or clear photos of our results
- described any patterns, trends or relationships shown by our results, and identified any anomalies

Evaluating



We have:

- stated our conclusion, and whether or not our results support our hypothesis
- explained our results using our knowledge of the science and scientific concepts related to our investigation
- related our findings to the real world and suggested questions for further investigation
- reflected on possible sources of error in our investigation and stated how our investigation could be improved

Communicating

Now that you have checked your storyboard it's time to make your **video**.

Try to make a video that is interesting, engaging and enjoyable for the viewer to watch, so they pay attention and learn about your great investigation. Use your creativity!

So here is a checklist for your team to consider when you are making your video:

We are:



- filming in a quiet area so there is no background noise
- filming where there is enough lighting so that everything presented can be clearly seen
- looking at the camera when speaking and have only one team member speaking at a time.
- speaking loud enough and clearly enough for the viewer to hear and understand
- speaking at the right pace (not too quickly or too slowly)
- ensuring that any text, data tables and graphs presented on screen are large enough to be easily read and to clearly see all details
- allowing enough time for the viewer to look at and understand everything that is presented on screen
- including creative ideas and features to engage the viewer
- checking the spelling of all our text
- checking that our final version of the video is between 4 and 5 minutes long

HINT: it is a good idea to learn your investigation information so that you can look at the camera and talk directly to your audience.

EXTRA HINT: Play your video for your teacher, friends and family to get their feedback before submitting – they might notice something you missed that needs fixing!

Good luck!! We look forward to seeing your investigation video!! 😊