

WHAT IF ...THERE WAS NO DAY AND NIGHT?

What if it were only light or only dark?

What differences would there be in your routines?

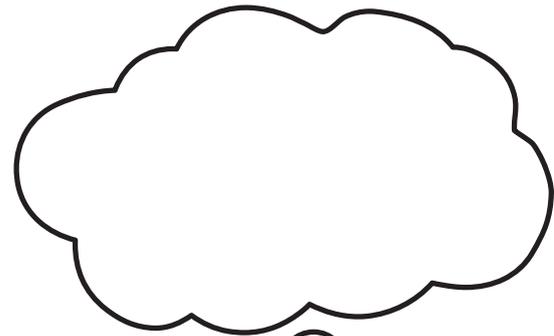
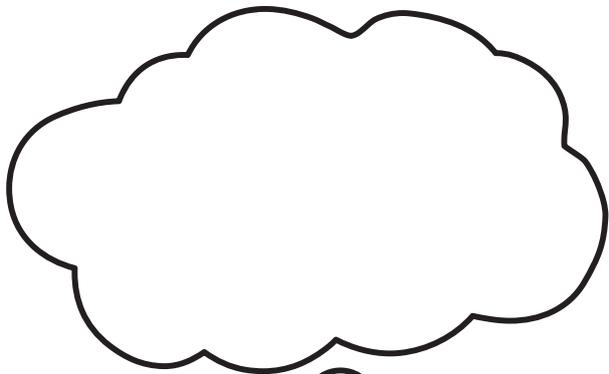
Would there be changes to life on Earth?

Would there be any advantages?

Remember there are no right or wrong answers,
just ideas.

WHAT IF ...THERE WAS NO DAY AND NIGHT?

What could these characters be thinking? Fill in their thoughts.



WHAT IF ...THERE WAS NO DAY AND NIGHT?

Produce It. Protect It.
ideas.

Do they match
yours?

I wonder if I would be
really tired if there
wasn't night?



I wonder if any plants would grow
if it were always dark?... because I
know that plants need light to
photosynthesise.



How will I stay safe if there
is no darkness to hide me
whilst I move around?



WHAT IF ...THERE WAS NO DAY AND NIGHT?

Draw 3 of your
own characters
and share their
ideas.



STUDENT WORKSHEET
PHYSICAL EFFECTS ON FARM ANIMALS



If there was no day and night, the world would be a very different place.

The growth and survival of living things are affected by the physical conditions (like light) in their environment. Physical conditions are non-living things and processes in the environment such as; water, weather, pressure, temperature, nutrients, space, air, shelter, fire etc that can impact the growth (getting older and developing from young to old) and survival (ability to stay alive) in an environment.



This is Farmer Paul. He lives near Fish Creek, Victoria. Paul needs to know about the physical features on his farm so that he can care for and manage his animals and plants in the best possible way.

Activity Four: Farmer Paul's Profile

Read the information about Farmer Paul.

Source: Farmer Paul, Farmer Time, Produce It. Protect It.

URL: <https://farmertime.com.au/wp-content/uploads/2021/10/Pre-Recorded-Farmer-Profiles.pdf>

Activity Five: VIC Farmer Time - Farmer Paul

Watch Farmer Paul's VIC Farmer Time video. Look and listen for how he manages his animals through the seasons to ensure that the physical conditions in the environment don't negatively impact his production.

Source: VIC Farmer Time- Physical Features in the Environment with Farmer Paul, Produce It. Protect It., 2021.

URL: <https://www.youtube.com/watch?v=CWTOw7aoqXk>

STUDENT WORKSHEET
PHYSICAL EFFECTS ON FARM ANIMALS



What did Farmer Paul say about the rainfall in his area?

.....

.....

What was the weather like in the video?

.....

Silage is grass that has been cut, wrapped and fermented to keep as much of the nutrients as needed. Making silage preserves the pasture for animals to eat later when natural pasture isn't good, like in the dry season or when they need more nutrition when it is cold or when they are pregnant.



Why do you think Farmer Paul was feeding his cow's silage?

.....

.....

What has Farmer Paul done to help protect his animals from physical conditions on the farm?

.....

.....

Planning an Investigation

If you wanted to design an experiment to investigate the effect of a physical factor on the germination of seeds or the growth of plants, how would you go about it?

- What physical conditions could you test?
- What would you measure?
- How would you set up the experiment?



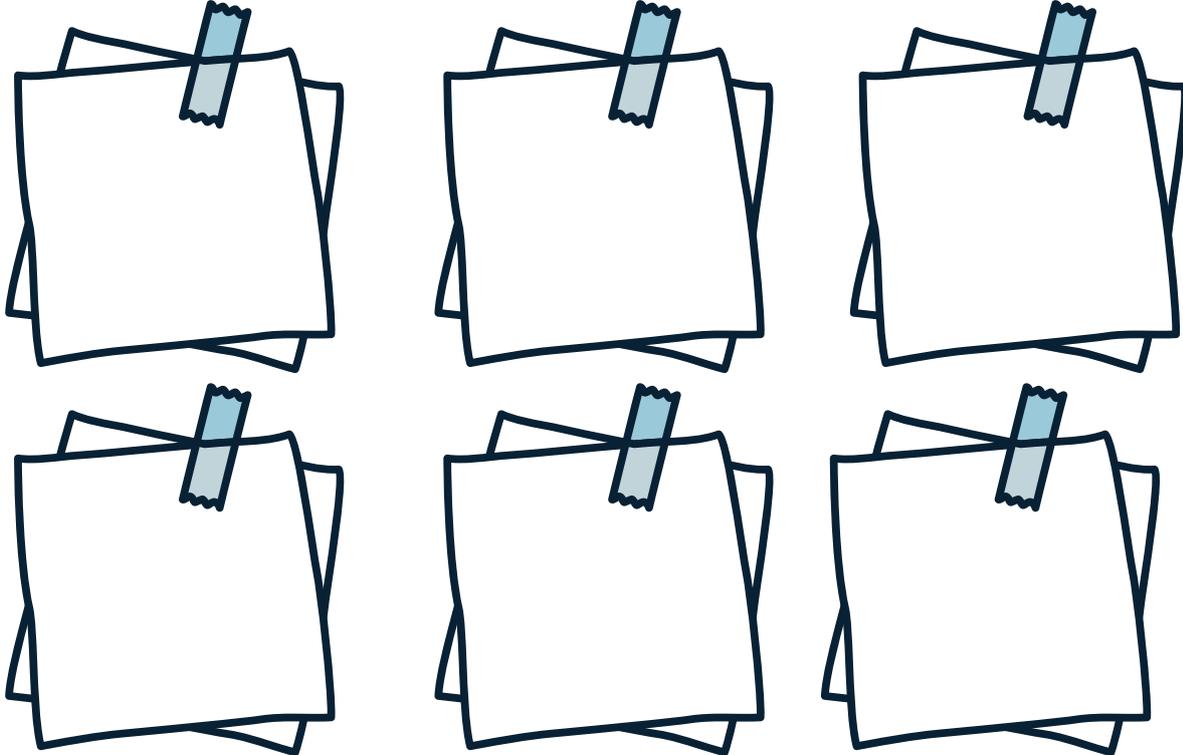
With your class use the Plan It. Post It. strategy to design an experiment. Use the pictures to help you think about physical factors you could test.



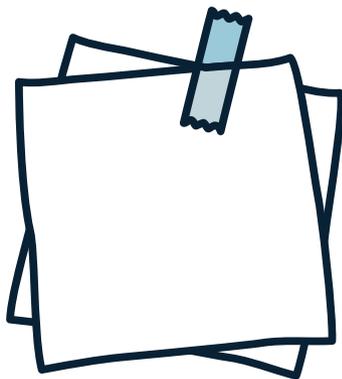
Planning an Investigation

We are investigating how a physical factor can affect _____ (insert focus)

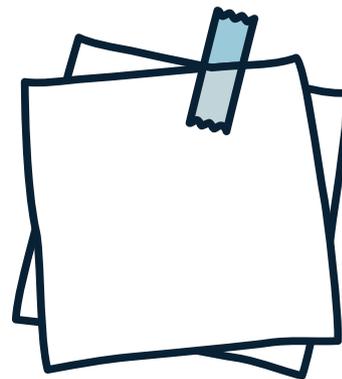
The variables we could change



We will change

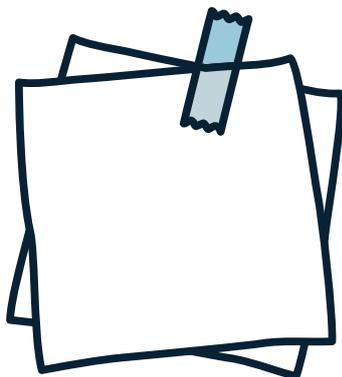


so that we can measure/observe

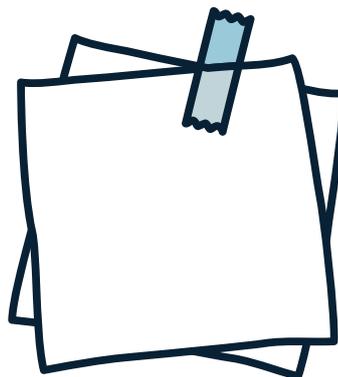


Our aim is to

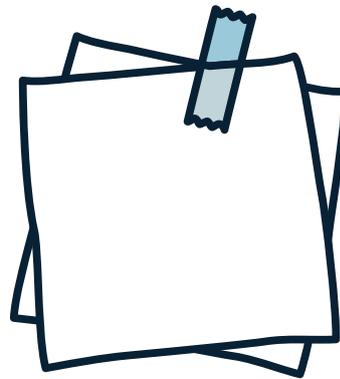
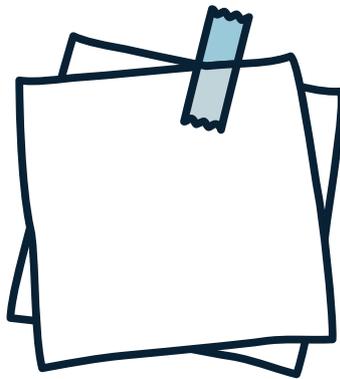
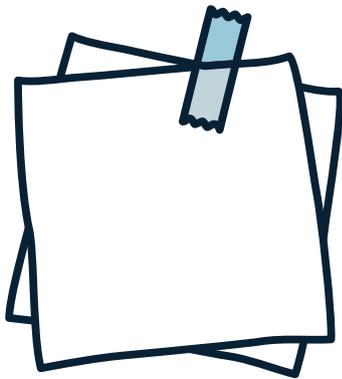
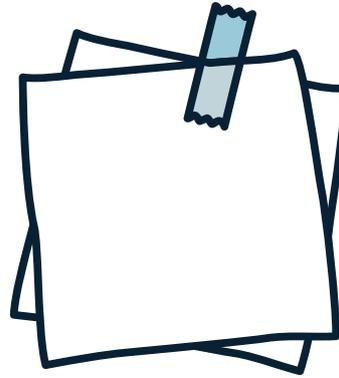
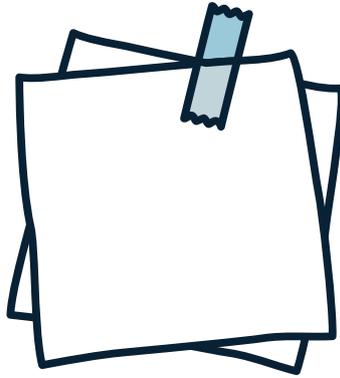
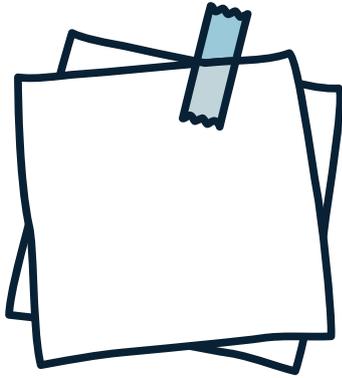
Investigate the effect of



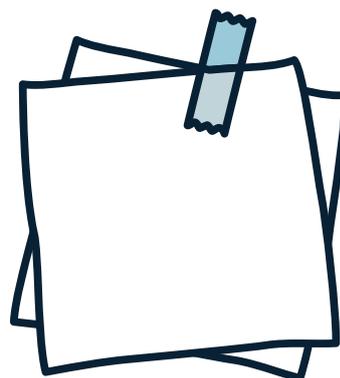
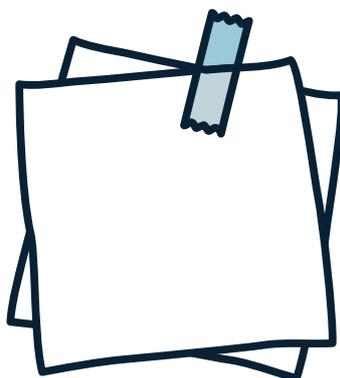
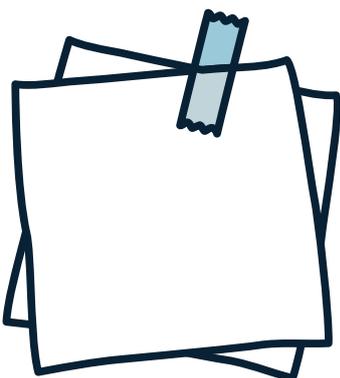
on the



To make this investigation a FAIR test we will make sure that we keep the following factors the same...



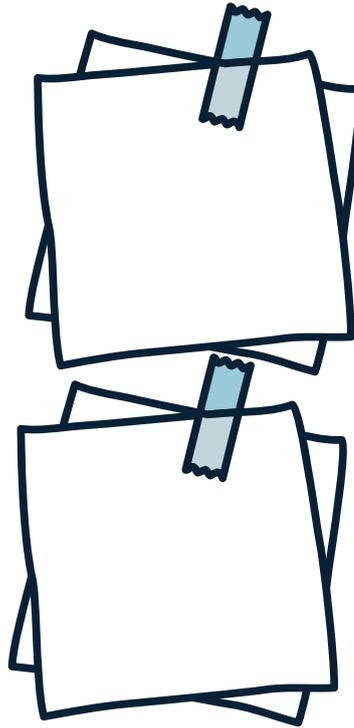
Our predictions for this investigation are that...



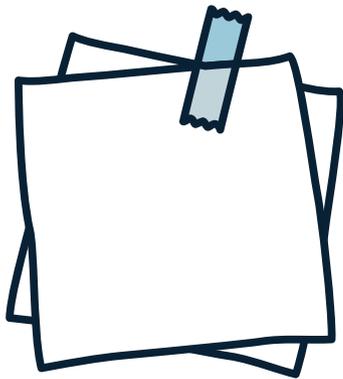
During this investigation we asked the question of

When we changed the variable

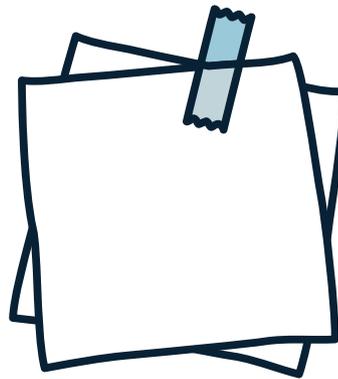
what will be the effect on



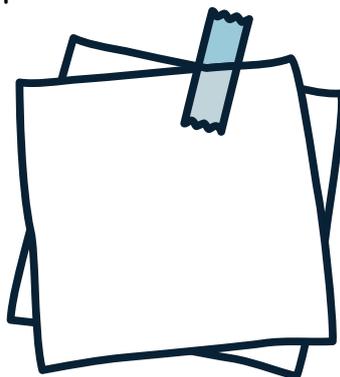
"I" control the INDEPENDENT variable, therefore the independent variable was...



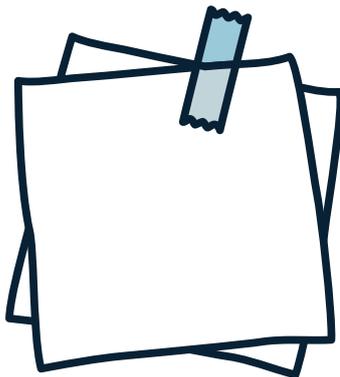
I cannot control the dependent variable, therefore the dependent variable was...



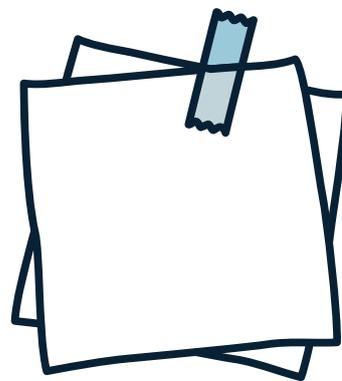
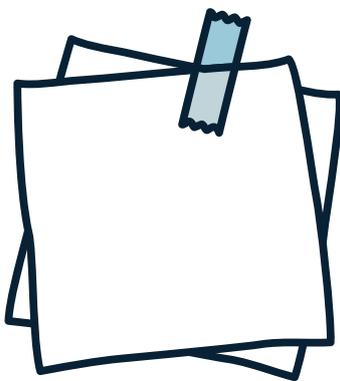
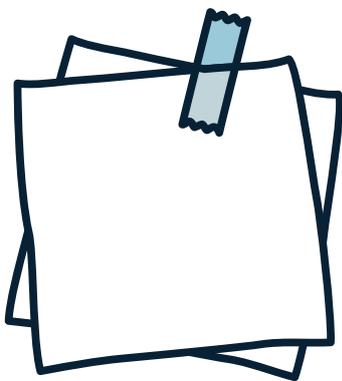
Our best / most accurate prediction was...



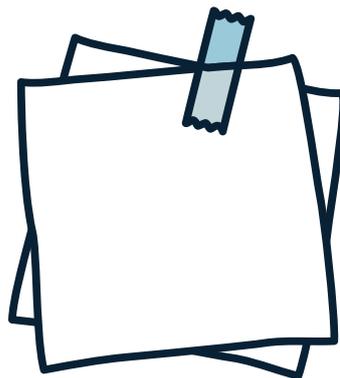
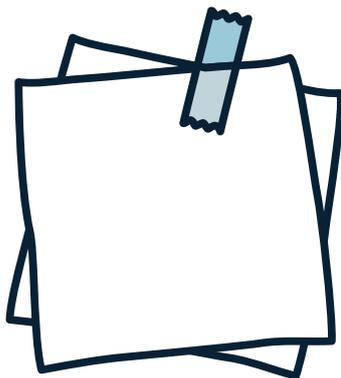
Why was this prediction the best



What were 3 scientific words that you needed to use in this experiment?



Did anything go wrong in the experiment or were there any unusual results?



Did you answer the question you set out to answer? YES / NO

The conclusion to this investigation is that

.....

.....

.....