



Science Animal Creations

Grade Level/s:
1, 2, 3, 4, 5, 6

Subject/s:
Science, Technologies

Type:
Unit Plan

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Science Animal Creations

Students are analysing why animals are the way that they are, they are also looking at what type of animal features would a Mars animal have.

Single Lesson Plan

Mars

Task:
Explore through a video, what we believe the Mars environment to be like (10 minutes)

Activity:
Students talk in small groups about whether they'd like to live on Mars. What observations do they have about the conditions? What prior knowledge do they have about Mars?

Resources:
Video - <http://www.abc.net.au/btn/story/s3934606.htm> (<http://www.abc.net.au/btn/story/s3934606.htm>)

Needs (15 minutes)

Compare the similarities and differences between human and animal needs.

Venn Diagram

Research (20-30)

Students research Mars conditions and compare to Earth

Internet, tablets/devices

Animals on Mars

Task:
Congratulations, you are a scientist who has just landed on Mars! You have made an extraordinary discovery - you've found the first Mars animal.

Activity:
Describe (& design) what animal you saw. Base your design on the environment of Mars and what animal features it'd need to have to survive.

Resources:
Internet access, paper, pencils.

Moving into 3D

Design your animal on MakersEmpire

Makers Empire.

Justify / share your animal.

Describe what features it has. Describe why it would survive on Mars Describe how each feature would help its survival.

Create a trading card / create an online booklet / use bookmaker / use seesaw ...

Curriculum

Australian Curriculum:

Living things have a variety of external features (ACSSU017)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/0ceb7c6c-9424-473d-a80e-9e4600a2dbee>)

Recognising Common Features Of Animals Such As Head, Legs And Wings (ELBS699)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/12c1344a-11fa-459b-acc8-9e4600a2dbee>)

Describing The Use Of Animal Body Parts For Particular Purposes Such As Moving And Feeding (ELBS700)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/4e0af9e6-fed8-4bc7-874d-9e4600a2dbee>)

Identifying Common Features Of Plants Such As Leaves And Roots (ELBS701)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/dfc36102-a04b-4303-b738-9e4600a2dbee>)

Describing The Use Of Plant Parts For Particular Purposes Such As Making Food And Obtaining Water (ELBS702)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/5fac0480-b4ac-4b8e-9ac6-9e4600a2dbee>)

Living things live in different places where their needs are met (ACSSU211)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/526470bf-f121-45c5-8893-9e4600a2dbee>)

Exploring Different Habitats In The Local Environment Such As The Beach, Bush And Backyard (ELBS696)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/b3860717-5b5b-436e-a7b3-9e4600a2dbee>)

Recognising That Different Living Things Live In Different Places Such As Land And Water (ELBS697)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/29d2dc51-062e-4422-804d-9e4600a2dbee>)

Exploring What Happens When Habitats Change And Some Living Things Can No Longer Have Their Needs Met (ELBS698)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/e304b652-f716-4959-8dc4-9e4600a2dbee>)

Biological sciences

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/44d5d7cc-b88f-479b-b04d-9e4600a2dba8>)

The growth and survival of living things are affected by the physical conditions of their environment (ACSSU094)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/1fbf9ead-cf12-48b9-8a4c-9e4600a2dbbf>)

Investigating How Changing The Physical Conditions For Plants Impacts On Their Growth And Survival Such As Salt Water, Use Of Fertilizers And Soil Types (ELBS897)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/452b21ce-44e0-44c8-a421-9e4600a2dbbf>)

Observing The Growth Of Fungi Such As Yeast And Bread Mould In Different Conditions (ELBS898)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/48ece87c-308b-4bca-bcee-9e4600a2dbbf>)

Researching Organisms That Live In Extreme Environments Such As Antarctica Or A Desert (ELBS899)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/3bfe9f58-bb89-4405-9ba6-9e4600a2dbbf>)

Considering The Effects Of Physical Conditions Causing Migration And Hibernation (ELBS900)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/9bd34ef9-ab39-4413-8711-9e4600a2dbbf>)

Biological sciences

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/440bf768-51ed-4e7c-90c7-9e4600a2dbbf>)

Living things grow, change and have offspring similar to themselves (ACSSU030)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/fc147845-c55a-483d-a4c3-9e4600a2dbac>)

Representing Personal Growth And Changes From Birth (ELBS732)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/e2307607-24f7-4ad5-aac3-9e4600a2dbac>)

Recognising That Living Things Have Predictable Characteristics At Different Stages Of Development (ELBS733)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/0ca6a35e-d725-48ed-afb4-9e4600a2dbac>)

Exploring Different Characteristics Of Life Stages In Animals Such As Egg, Caterpillar And Butterfly (ELBS734)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/50fc9823-3527-4fa3-ae21-9e4600a2dbac>)

Observing That All Animals Have Offspring, Usually With Two Parents (ELBS735)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/b82dafa0-2916-41a7-a630-9e4600a2dbac>)

Biological sciences

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/c44c4760-eca6-46aa-a892-9e4600a2dbac>)

Living things have structural features and adaptations that help them to survive in their environment (ACSSU043)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/2fac7946-3e37-458a-b878-9e4600a2dbb6>)

Explaining How Particular Adaptations Help Survival Such As Nocturnal Behaviour, Silvery Coloured Leaves Of Dune Plants (ELBS073)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/054f1d27-0f66-40c1-8133-9f7f00cce5e6>)

Describing And Listing Adaptations Of Living Things Suited For Particular Australian Environments (ELBS074)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/604ff034-7219-4f9f-8c54-9f7f00cce5e6>)

Exploring General Adaptations For Particular Environments Such As Adaptations That Aid Water Conservation In Deserts (ELBS075)

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/8e581829-1a81-49ef-b4dc-9f7f00cce5e6>)

Biological sciences

link (<http://rdf.australiancurriculum.edu.au/elements/2014/09/9188acf1-ccff-4716-84f2-9e4600a2dbb6>)