

SCIENCE AND AGRICULTURE

STEM CHALLENGE

A PIEFA MEMBERS COLLABORATION



FOR
YEAR 2

GRDC
GROWING AND CHANGING

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Year: Two

Outcomes:

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

Introduction:

Living things grow and change over time. Students will have the opportunity to learn some facts about wheat and its uses in Australia. They will gain an understanding of the life cycle of wheat. They will then use a product of wheat (4 different varieties of pasta) to create their own life cycle of a butterfly/moth.

Students can complete this activity with real pasta (student allergies should be checked and an individual school risk assessment should be completed) or use the template cutouts to model the life cycle phases. If real pasta is being used, select risoni, spirals, shells and bowtie pasta and suitable glue for the task. A paper plate can also be used to model the task.

Task:

Activity One: Life cycles comprehension.

Read the material about life cycles and highlight important words.

Activity Two: Create a life cycle using wheat products.

Complete the activity using pasta or the template cutouts.

A Plant and Animal Life Cycle

The Wheat Life Cycle

Wheat is the largest grain crop grown in Australia. Wheat goes through a life cycle. It starts as a seed, grows into a seedling, then a plant. The plant then produces its own seeds. This process takes approximately 6 months. In Australia, wheat is used to make; flour, bread, noodles, cakes and pasta, plus it can be used as food for livestock.

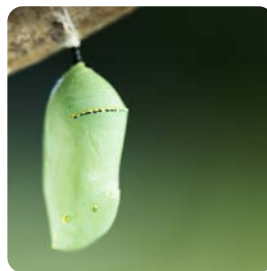


For more information about grains, visit GRDC

https://grdc.com.au/__data/assets/pdf_file/0022/367042/Grain-facts-for-schools-wheat.pdf

The Butterfly and Moth Life Cycle

Butterflies and moths have lifecycles too. The phases of their life cycle are; egg, caterpillar (larva), chrysalis (pupa) and butterfly/moth. Some of these insects are damaging to the plants we eat, but some help pollinate plants, like the Hawk Moth does for papaya.



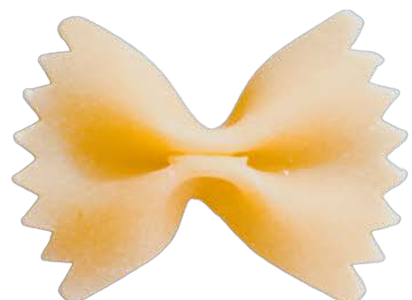
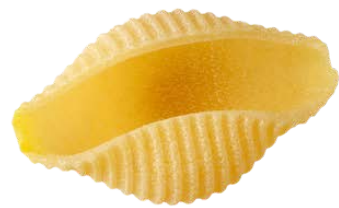
White Cabbage Butterfly lifecycle

An Animal Life Cycle

Activity

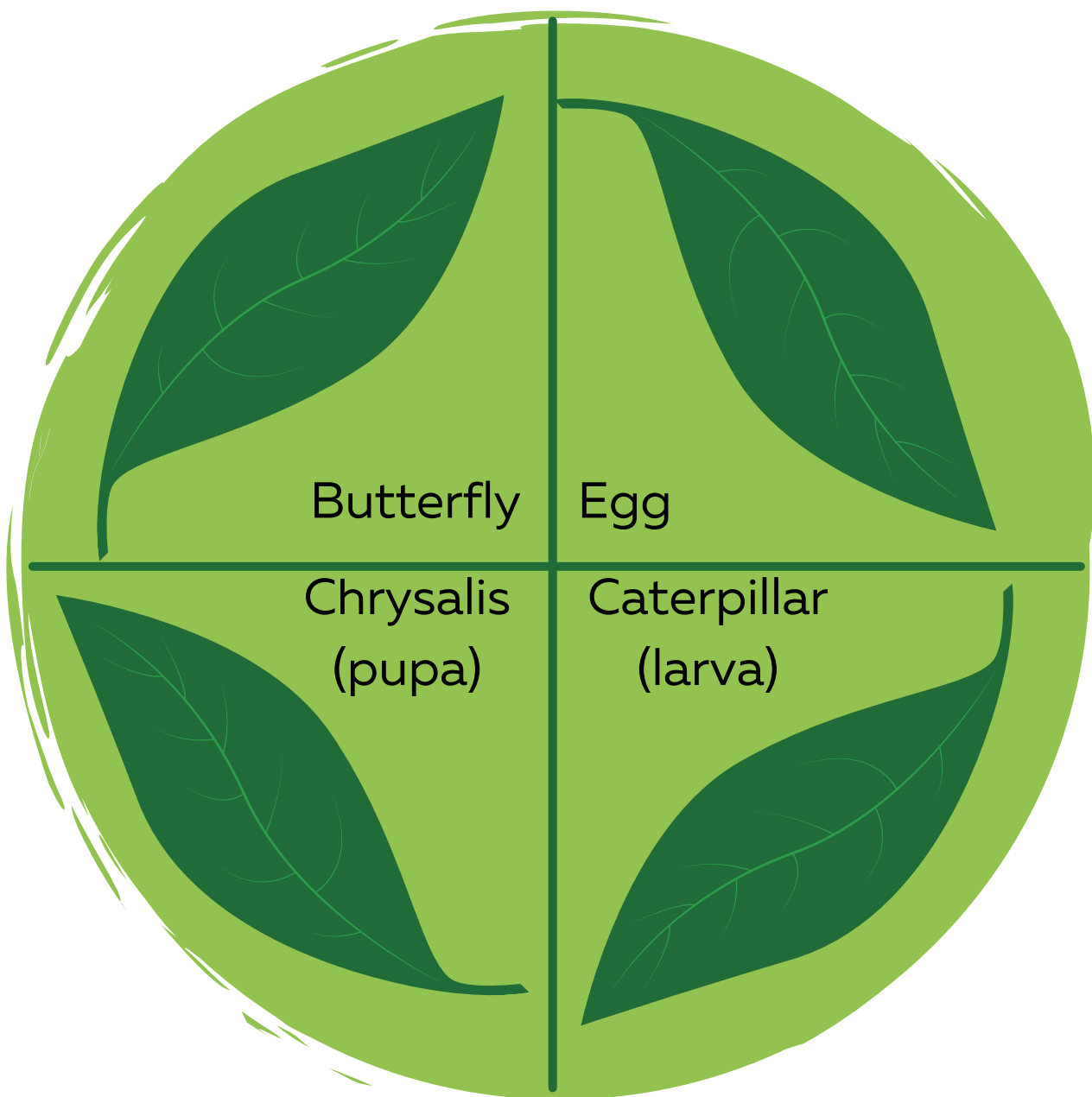
Using either real pasta or cutouts of the pictures below, stick the correct shape of pasta onto the correct area of the life cycle picture.

1. Find the pasta shape that looks most like eggs and stick it down on the template.
2. Find the pasta shape that looks most like a caterpillar and paste this onto your picture.
3. Next, find the pasta shape that looks like a cocoon (chrysalis) and attach this to your diagram.
4. Finally, find the butterfly shape to complete your life cycle picture.
5. You may like to also draw legs on your caterpillar and antennae on your butterfly.



Using WHEAT products

Life Cycle of a Butterfly



Answers

Using WHEAT products

Life Cycle of a Butterfly

