



Khaled bin Sultan  
Living Oceans  
Foundation

## STANDARDS

- **CCSS:** RST.9-10.1, 2, 3, 4, 5, 6, 7, 8, 9, 10; RST.11-12.1, 2, 3, 4, 6, 10; SL.9-10.1, 6; SL.11-12.1, 6
- **NGSS:** HS-LS2-8
- **OLP:** 5.C.44, 5.C.47, 5.C.48, 5.C.50, 5.C.53, 5.C.54, 5.C.55, 5.C.56

## ONLINE CONTENTS

- [Coral Reproduction Quiz](#)
- [Corals: The Birds and the Bees Video](#) How do coral colonies ensure their own survival generation after generation? Corals reproduce sexually (mass spawning and brooding) and asexually (budding and fragmentation).

# CORAL REPRODUCTION

This lesson is a part of the *Coral Reproduction* unit, which explains different strategies that corals use to reproduce. Below is a summary of what is included in the entire unit.

## UNIT CONTENTS

### A. [Background Information](#)

- Reproduction
- Sexual Reproduction
- Asexual Reproduction

### B. Lessons

#### [Watch it! Birds and the Bees](#)

- A worksheet to accompany the [Birds and the Bees](#) video

#### [Safety in Numbers](#)

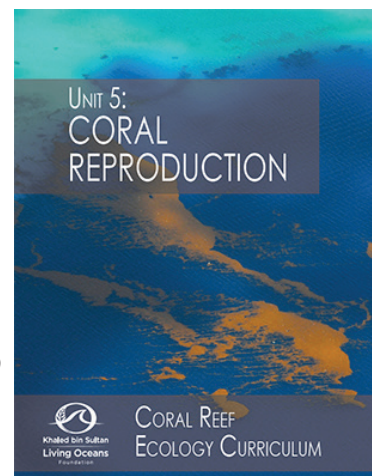
- A game of tag adapted to learn the advantages of mass spawning

#### [Comic Clones](#)

- An activity to make a comic strip describing a form of asexual reproduction

#### [Read it! Rolling Stones](#)

- A worksheet to accompany the [Rolling Stones](#) field blog



# LESSON 2

# COMIC CLONES

It's time to make some new corals! But how do these animals reproduce? Many corals can reproduce *asexually*. That means new organisms are created from a single organism – they clone themselves! There are four ways corals reproduce asexually: *fragmentation*, *fission*, *bailout*, and *budding*. Now that we know how corals make new corals, it's your turn to draw the reproductive cycle!

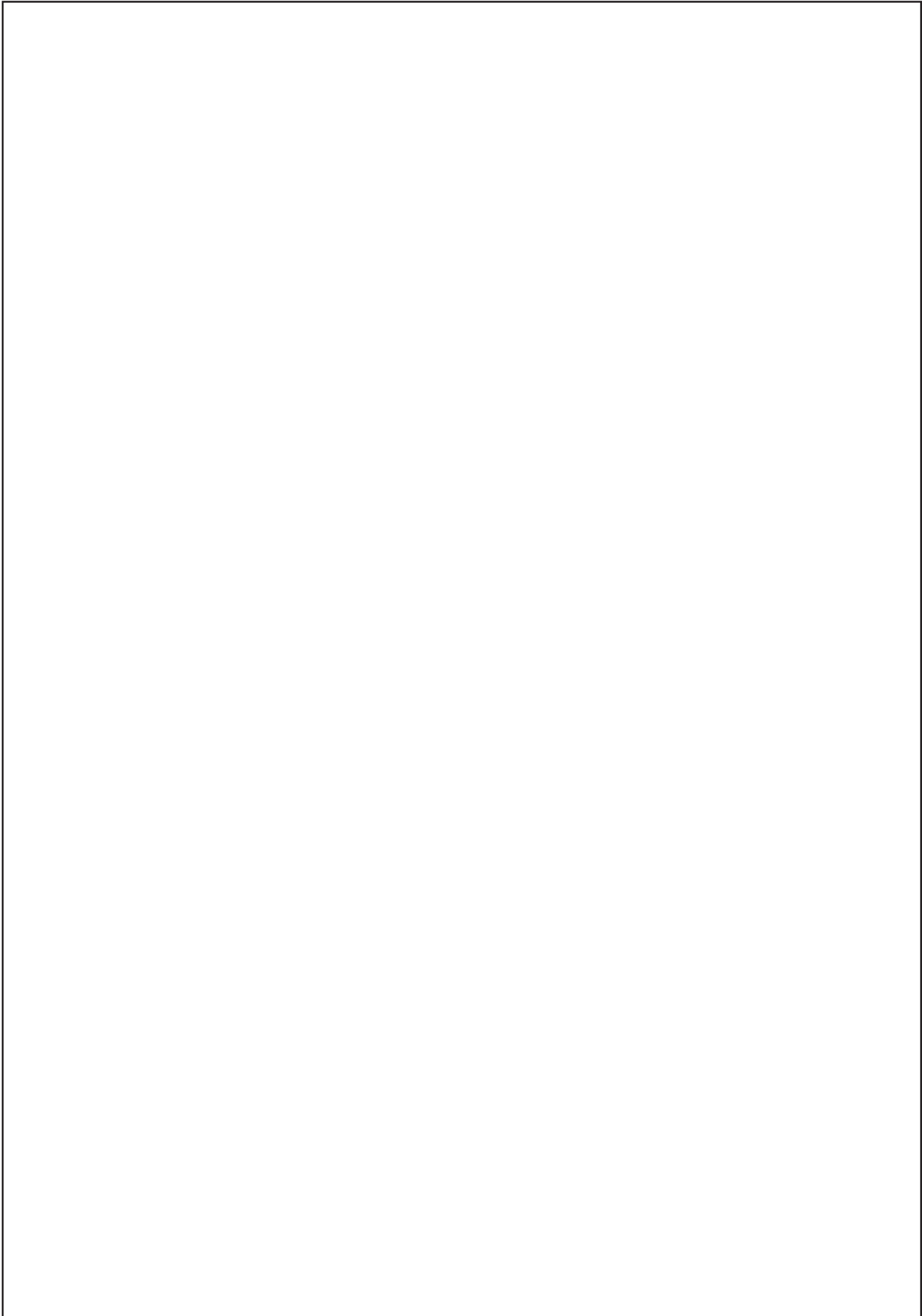
## INSTRUCTIONS:

1. Define the types of asexual reproduction in the space below.

Type	Definition
Bailout	
Budding	
Fission	
Fragmentation	

2. Choose one of the four types of asexual reproduction found in corals.
3. Make a cartoon strip about your chosen type of asexual reproduction by dividing the large box, on the following page, into 4-6 smaller boxes. Work with a partner to come up with a story and character(s) to demonstrate the process corals go through to make new corals.

Cartoon Strip Title: \_\_\_\_\_ By: \_\_\_\_\_



**GRADING RUBRIC:**

Category	4	3	2	1	Score
<b>Neatness</b>	Images are neat and attractive to the eye.	Images are attractive to the eye.	Images are messy, but still mostly attractive.	Images are messy and distracting.	
<b>Complete Information</b>	Comic strip includes all of the information in the definition.	Comic strip includes more than half of the information in the definition.	Comic strip includes more than a quarter of the information in the definition.	Comic strip includes less than a quarter of the information in the definition.	
<b>Organization</b>	Exceptionally clear, logical, and thorough development with excellent transitions between comic strip frames.	Clear and logical order with good transitions between comic strip frames.	Somewhat clear and logical development with basic transitions between comic strip frames.	Lacks development of ideas with weak or no transitions between comic strip frames.	
<b>Grammar/ Spelling</b>	Comic strip is free of errors.	Comic strip has only 1-2 errors.	Comic strip has 3-5 errors.	Comic strip has more than 5 errors.	
<b>TOTAL</b>	<b>Out of 16:</b>				