

# LESSON 2

# COMING FULL CIRCLE

**INTRODUCTION:** You will be constructing a story wheel that represents each of the different stages of a broadcast spawner's life cycle. Below, there are directions for building your model. After you complete your story wheel, answer the questions.

**MATERIALS:**

- Scissors
- Colored pencils and/or markers
- 2 story wheel templates
- 1 paper fastener
- Protractors (optional)

**INSTRUCTIONS:**

1. Use two pieces of paper or cardstock to create your story wheel.

Circle 1:

2. Cut out the circle from the Story Wheel Template 1 - Circle 1.
3. For each of the 8 sections, draw and describe the stages of a coral's life cycle. Refer to the *Unit 6: Reproduction - Background Information* for more details. It doesn't matter which section you begin with on the circle, as long as you place each stage of the coral's life cycle in chronological order.

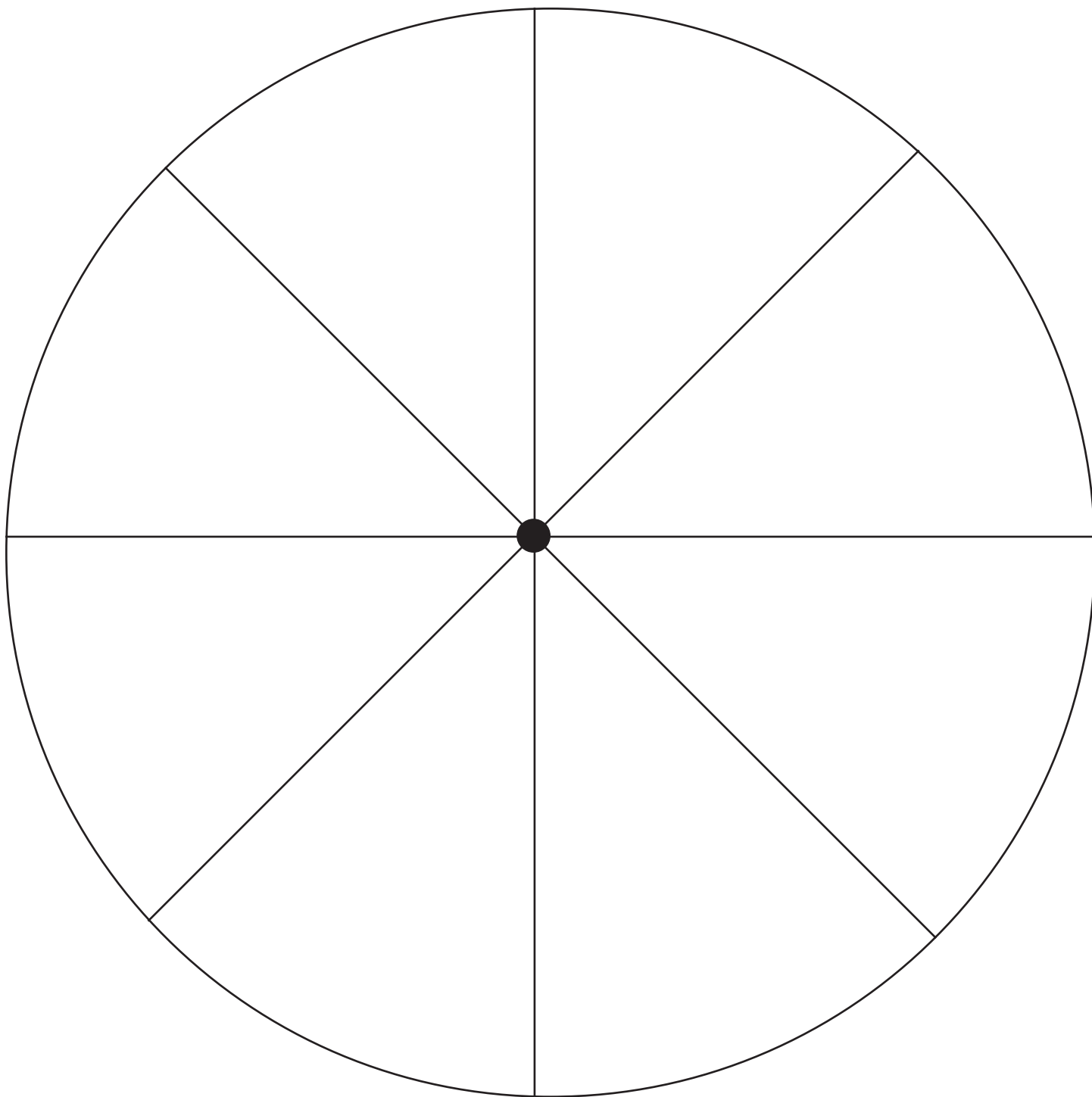
Circle 2:

4. Cut out the circle from the Story Wheel Template 1 - Circle 2.
5. Cut out one wedge the same size as each section on Circle 1 (dotted lines).
6. Place Circle 2 on top of Circle 1. Make sure that they line up perfectly.
7. Use the fastener to puncture the center of each circle. Bend back the tails of the paper fastener to keep your circles in place.
8. Create a title and write it on your story wheel.
9. Answer questions on your worksheet.

**INSTRUCTIONS:** Answer the following questions.

1. At what stage in the coral's life cycle does DNA from two different individuals mix?
2. What does it mean when a coral is going through metamorphosis?
3. Why is it important that corals can reproduce sexually and asexually? Explain.
4. Can a coral survive without undergoing meiosis?
5. Can a coral survive without undergoing mitosis?
6. What factors could affect a coral's life cycle? List at least three examples.
7. If you are in charge of sexually breeding corals for a fish store, what factors would you have to take into consideration when designing the breeding tanks?

# STORY WHEEL TEMPLATE 1 - CIRCLE 1



## STORY WHEEL TEMPLATE 1 - CIRCLE 2

