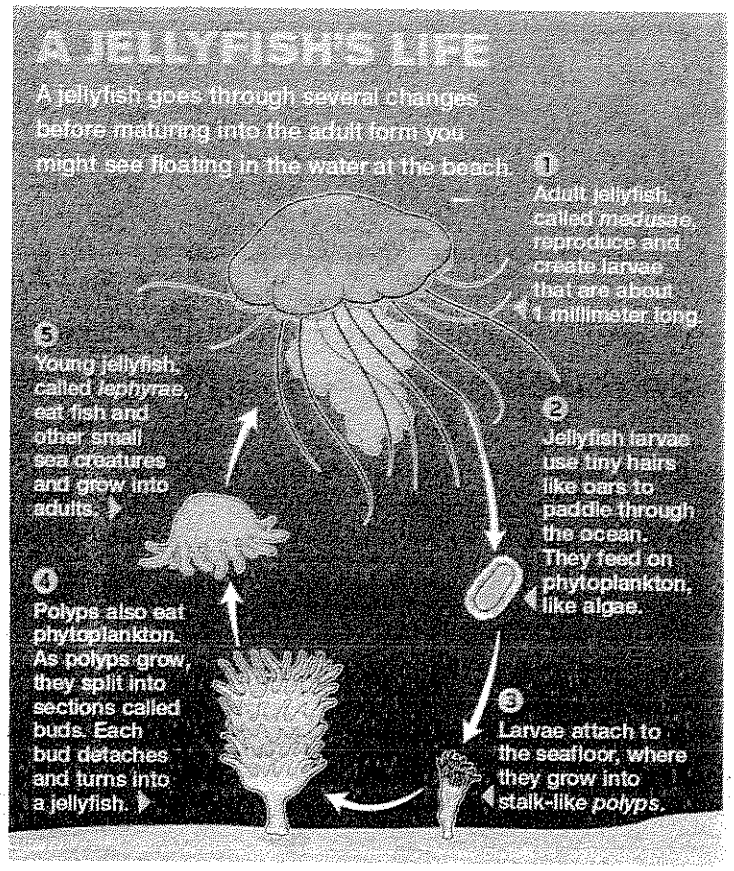
Name: _____

STAGES OF LIFE

In "Jellyfish Invasion!" (p. 14), you read that swarms of jellyfish, called *blooms*, are being spotted more frequently around the world. These blooms form when jellyfish reproduce quickly. The diagram in the article (*also shown below*) shows the jellyfish life cycle. Study the diagram, and then answer the questions that follow.



KATE FRANCIS (DIAGRAM)

ANALYZE IT

1. How is the polyp stage different from the other life stages of a jellyfish?

2. In the article, you read that jellyfish are most vulnerable during the larval stage. Use evidence from the diagram to explain why.

3. In your own words, explain how a jellyfish changes from a stalk-like polyp into its floating form.

4. At which stage are jellyfish most often spotted by humans? Explain why.

5. Use information from the diagram and the article to explain how the life cycle of jellyfish could allow blooms to form quickly.

Name _____ **Date** _____ **Hour** _____

Water Bottle & Balloon Experiment Quiz

1. How does changing the temperature of the air in the water bottle affect the **speed** of the gas molecules?

2. Why would it make sense to show the **same number** of gas molecules in the first, second and third water bottle?

3. What will happen to the **spacing** between gas molecules as the temperature decreases?

4. What will happen to the **spacing** between gas molecules as the temperature increases?

Balloon Activity

5. In which case are the air particles more densely packed together? Inflated or deflated

6. In which case are the air particles less densely packed together? Inflated or deflated

7. What claim can you make to explain why the balloon rises or falls in the surrounding air?

8. On the back of this paper:
a)Draw a picture of an inflated balloon & a picture of a deflated balloon.
b) Label one balloon cooled air and the other balloon heated air.
c)Draw molecules with arrows to represent a closed system in each balloon.