


**Student Guide**

**Joe the Goldfish (SG p. 121)  
Questions 1–6**

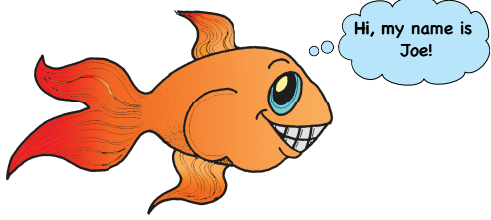
Responses will vary and should be decided by the students.


1. Possible response: What the coat might look like, how to fit a coat on a fish, how to think about the fish (2-D or 3-D).
2. Possible response: The coat will cover Joe from just behind his eyes to just before his tail. The gills and fins will be covered.
3. Possible response: The gills and fins will be covered but not the tail or the eyes.
4. Possible response: We will think of Joe as a real fish.
5. Possible response: We are going to cover both sides of Joe with the coat.
6. Possible response: Centimeter Grid Paper, scissors, maybe a ruler



## Joe the Goldfish

Pretend you need to design and make a raincoat for Joe the Goldfish.  
Find the area of the raincoat in square centimeters.



Discuss


Discuss the following questions with your classmates.

1. What do you need to think about before you start working?
2. How much of Joe is the coat going to cover?
3. What are you going to do about Joe's tail? Fins? Gills? Eyes?
4. Are you going to think about Joe as a flat figure like a paper doll or a real fish that has a right side and a left side?
5. How many sides of Joe are you going to cover?
6. What tools will you need?

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