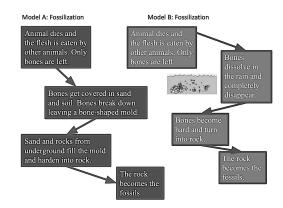
In this activity, you will evaluate which of the two models is best. You will work individually first, and then join with a partner to discuss your choices. Below is the first pair of models.

1. Which model better explains how fossils form?

On your own, look at the models and answer the following question:

Which model is better?

- A. Model A is better.
- B. Model B is better.
- C. Models A and B are equally good.
- D. It is impossible to say which is better.



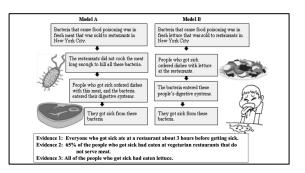
In pairs, discuss which model you think is best, and why. Be sure to give lots of reasons for your ideas. Remember to try to come to agreement on your ideas and on your reasons.

2. There was a huge outbreak of food poisoning in New York City. Health scientists developed two models of why the food poisoning occurred.

On your own, look at the models and answer the following question:

Which model is better?

- A. Model A is better.
- B. Model B is better.
- C. Models A and B are equally good.
- D. It is impossible to say which is better.



In pairs, discuss which model you think is best, and why. Be sure to give lots of reasons for your ideas. Remember to try to come to agreement on your ideas and on your reasons.

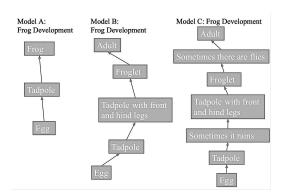
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## 3. Which of these three models is a better explanation of the development of a frog?

On your own, look at the models and answer the following question:

Which model is better?

- A. Model A is better.
- B. Model B is better.
- C. Model C is better
- D. The models are all equally good.
- E. It is impossible to say which is better.



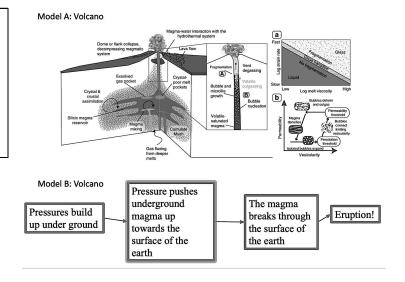
In pairs, discuss which model you think is best, and why. Be sure to give lots of reasons for your ideas. Remember to try to come to agreement on your ideas and on your reasons.

## 4. Which of these two models is better if you want to explain why volcanoes erupt?

On your own, look at the models and answer the following question:

#### Which model is better?

- A. Model A is better.
- B. Model B is better.
- C. Models A and B are equally good.
- D. It is impossible to say which is better.



In pairs, discuss which model you think is best, and why. Be sure to give lots of reasons for your ideas. Remember to try to come to agreement on your ideas and on your reasons.

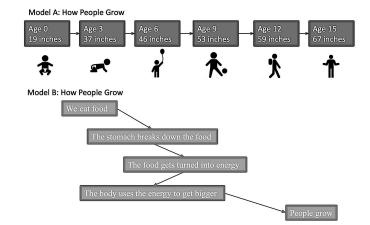
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# 5. Which of these two models is better if you want to explain how people grow?

On your own, look at the models and answer the following question:

### Which model is better?

- A. Model A is better.
- B. Model B is better.
- C. Models A and B are equally good.
- D. It is impossible to say which is better.



In pairs, discuss which model you think is best, and why. Be sure to give lots of reasons for your ideas. Remember to try to come to agreement on your ideas and on your reasons.

<b>STOP &amp; THINK:</b> Why is it important to give and ask for reasons in science?			

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	hat you have evaluated several models you are ready for the next task. develop a set of criteria for model quality to help us make good models and evaluate models.
•	Individually, make a list of the most important characteristics of good models.  Write down 6 characteristics of good models.  Rank all your criteria from "most important" to "least important". Put a number in the little box on the left, with 1 being most important and 6 the least important.
	1
	2
	3
	4
	5
	6
_	
	BEFORE YOU GO: Think about the class criteria list that you made. Which two criteria from the class list are most important? Why do you think so?