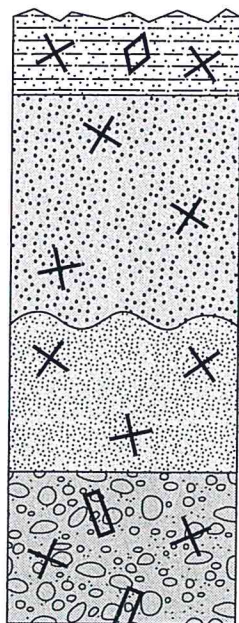
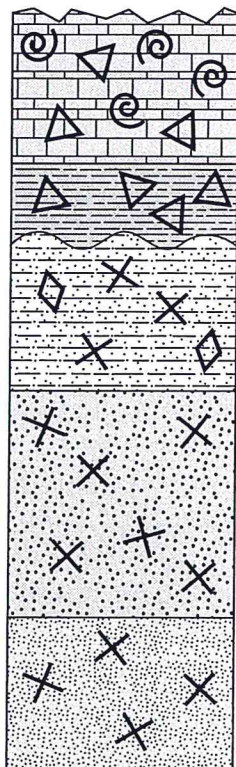


How DO You Stack Up? continued

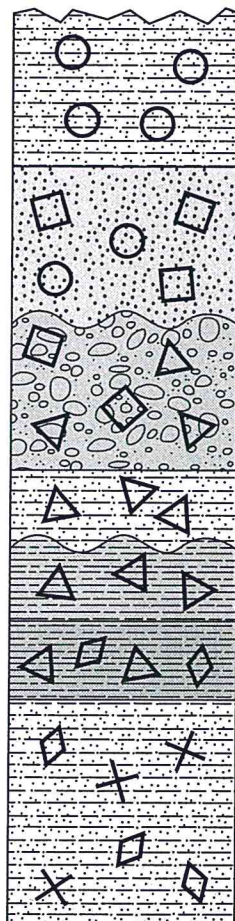
Outcrop cutouts



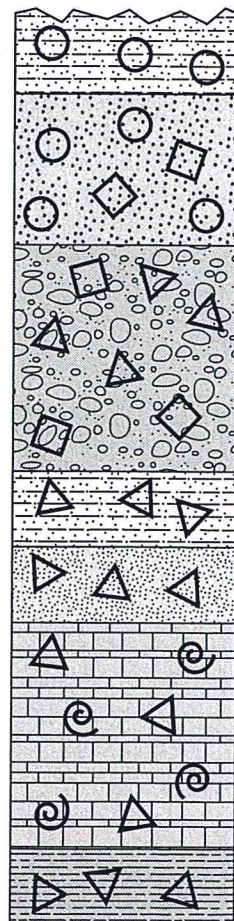
Outcrop 1



Outcrop 2



Outcrop 3



Outcrop 4

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Name: _____

Line each outcrop up with matching layers from other outcrops. Glue when you have the layers properly aligned.

Outcrop 1	Outcrop 2	Outcrop 3	Outcrop 4

Name: _____ Hour _____

How Do You Stack Up? Analysis and Reflection

1. How many layers are in the geological column you modeled? _____

2. How is this activity related to the play dough activity? _____

3. Which is the oldest layer in your column? (Describe this layer by rock type and the fossils they contain.) Label this layer.

Explain your reasoning. _____

4. Which is the youngest layer in your column? Label this layer. (Describe this layer by rock type and the fossils they contain.)

Explain your reasoning. _____

5. Look at outcrop 3. Which rock layer is completely missing? Explain how you know this.

6. If each outcrop represents a sample of the Earth's crust from different areas of the world, why do you think the dark shale from outcrop 3 (with triangle and diamond fossils) is not present in any of the other outcrops?

7. What are some differences between the top and the bottom of the geological column?

Provide some reasoning for why these differences might exist?

8. Based on what you know about the sedimentary, metamorphic, and igneous rock, why do you think fossils (organic/biotic material) are only found in sedimentary rock?
