

Name _____



Hands-On Activity

Make Model Habitats

Explore Online

Materials

Ask a Question

How can you build a model to show tide pool habitats?

Test and Record Data

Step 1



Make a plan to build your model habitats. Identify plants and animals that live in the habitat. Record your plan.

Plans will vary. Check children's work.

Step 2

Set up your habitats by filling your container with rocks, plants, and animals.

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Lesson 4 • What Plants and Animals Live in Water Habitats?

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Hands-On Activity

small groups 30–45 minutes

Make Model Habitats



Have children go online to watch a video about setting up and doing the activity.

3D Learning Objective

SEP Asking Questions and Defining Problems

SEP Scientific Knowledge is Based on Empirical Evidence

Read the title of the activity aloud with children. Then have them generate questions. Record their questions. Discuss the questions as a class and prioritize them in order of relevance to the activity. **Sample question:** How can you build a model to show tide pool habitats?

Suggested Materials a clear container, rocks, markers, toy sea creatures, water, measuring cup



Materials Alert If toy sea creatures are unavailable, children can make them out of modeling clay or foil. Recycle water by pouring it on plants.

Preparation

Assemble materials bundles for groups. Have paper towels handy for spills.

Activity

STEP 1 Monitor children as they make a plan for their model habitats.

DCI Biodiversity and Humans

Guide children in planning their habitats by asking leading questions. Query them about what type of water is in the habitat and what plants and animals live in it.

STEP 2 Allow children time to build their model using the suggested materials. Remind children to follow their plan.

Hands-On Activity, continued

STEP 3 Children may use words and drawings to record their observations.

STEP 4 Allow children time to analyze their results. Children should compare their models with other groups and with pictures of tide pools to share what they know about tide pool habitats and to identify any patterns they observe.

SEP Planning and Carrying Out Investigations

Ask: How is your model similar to habitats found in a tide pool? **Sample answer:** I used animals that are found in a low tide zone. How is your model different? **Sample answer:** The tide does not rise and fall.

Claims, Evidence, and Reasoning

Children should make a claim that describes how they modeled tide pool habitats. They should cite evidence to support their claim. **Ask:** What is your claim? How does your evidence support your claim? What is your reasoning? **Sample answer:** My claim is that my model is a lot like an actual tide pool habitat. My evidence is that it has the correct types of animals in it. My reasoning is that my model shows these animals in their habitat.

Step 3
Add water to your model. Observe what happens. Record your observations.

Check children's work.	

Step 4
Analyze your results. Make comparisons. Identify patterns.
Make a claim that answers your question.

Answers should reflect children's solutions for how to model habitats.

What is your evidence?

Answers should cite evidence from children's proposed solutions.

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Scoring Rubric for Hands-On Activity	
3	States a claim that clearly and directly explains how their model is an example of habitats found in a tide pool and is supported with evidence
2	States a claim that clearly and directly explains how their model is an example of habitats found in a tide pool and is somewhat supported with evidence
1	States a claim that clearly and directly explains how their model is an example of habitats found in a tide pool but is not supported with evidence
0	Does not state a claim and does not provide evidence