



Now you get to try making your own shade structure. You can work with a partner to build something that makes shade.

Help! The chocolate is melting!

Do you like it when your chocolate gets all sticky and melted? I don't! But what if you need to take your chocolate outside? Your chocolate needs protection from the warm sun! Can you build a structure to keep your chocolate from melting?

Explain

Look at the picture. These students have made a small shade structure. Look, the things they made are like tiny little houses!

Ask

Can you see the chocolate the girl has? What do you think will happen to the chocolate if she leaves it in the Sun?

Example: The chocolate will melt easily if it is left in the sunlight. It will become a gooey, sticky mess.

Ask

What do you think will happen to the chocolate if she puts it in the shade that she made?

Example: The chocolate will be protected from the sunlight. It will not melt or become sticky if it remains in the shade.

Activity Plan:

1. Get a partner: Use teamwork to build your shade structure.

Group your students into pairs.

2. Get your materials: Every group will use the same materials to make a structure.

Get the Blocky and Roxy Ramp Kea and the Cubie Blocks Koa.

3. Make a shade structure: Be creative! There are many ways to make shade with your materials.

4. Test your shade: Place a thermometer or a piece of chocolate in your shade to see what happens.



Think Critically



Cooperate with your partner to build a shade structure.

What you will need:



Cubie blocks -
3 handfuls



Blocky - 2
Roxy Ramp - 3

Explain

Show the photo on the opposite page to your class.

Materials needed: In this photo you can see the materials that you and your partner will need. One partner can carry your Cubie blocks on a tray and the other partner may carry three ramps and two Blockys.

Come up to get your materials when I call your names. When you get your materials you may go outside and start to build your shade structure.

Ask

What materials does each group need to get?

Example: three handfuls of Cubie blocks on a tray, two Blockys, and two Roxy ramps.

Explain

Building instructions: Remember, you are building a structure to make shade, like a little house, umbrella or hat. You can put the materials together however you would like to. I am excited to see how you use your creativity to make your structure!

Ask

Once you make your structure, how will you test if the shade is working to reduce warming from the Sun?

Example: There are many ways you can test your shade. Encourage students to think of ideas. Guide them toward the following solutions:

Explain

1. You may place your hand under the shade to see if you can feel a difference between the shade and the sunlight.
2. You may place a thermometer under the shade and compare it to the sunlight. (You may need to prepare your students to read a thermometer if you choose this option.)
3. You may place a chocolate in your shade and compare it to another chocolate that is placed in the Sun.