Nature's Tool Shop

Students use outside parts as ideas for tools that help people.

1-LS1-1 "Construct an explanation and design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. (SEP: 6; DCI: LS1.A, LSI.D, ETS1.A..."

NAME _____ DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 FIND THE PART

a

wing	**shell**	**tail**

b

leaf	**root**	**flower**

2 MAKE A TOOL

bumps	
sun	

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HOW TO RUN THIS PAGE

Read each row and its choices aloud, then ask students to write one word for each tool they design. Model a different case: a duck's webbed feet push water, so a paddle shaped like them could help a person move through water. Listen to each child's explanation of what the tool copies and how it helps, and record any support separately.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 · FIND THE PART

SAY "Listen to each problem and the words I read. Circle the outside part that can do the job."

ROW	SAY	STUDENTS CIRCLE
a	A turtle needs to protect its soft body from bumps. The choices are wing, shell, and tail. Which outside part helps?	**shell**
b	A plant shades the ground below it. The choices are leaf, root, and flower. Which outside part can give shade?	**leaf**

PART 2 · MAKE A TOOL

SAY "Look at bumps beside the first box. What could you make to protect a person's head from bumps, like an animal's outside part does? Write one word for your tool, then tell me which part it copies and how it helps. Now look at sun beside the second box. What could you make to shade a person, like a plant's outside part does? Write one word for your tool, then tell me which part it copies and how it helps."

- Box 1 (beside bumps): **helmet**
- Box 2 (beside sun): **hat**

WHAT TO ACCEPT

Circle answers: shell, leaf. Box examples: a helmet copies a turtle's shell to protect a head from bumps; a wide hat copies a leaf to shade a face. Accept other plausible tools when the child explains the outside part copied and how the tool helps.