

Mission 1: Teach a Family Robot

Adenvale Winter Break

Screen-free | 10-20 min | Ages 5-12

Draw or cut out 10 pictures: 5 snacks and 5 not-snacks. A grown-up plays the robot. Show each card and say "snack" or "not snack", then hold up a new card. Did the robot guess right?

☐ Mission done!

Big idea: AI learns from examples.



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Mission 2: The Tricky Card

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Find something confusing, like a toy cookie or a fluffy white cat that looks like a snowball. Does the robot get it wrong? Show more examples and test again.

☐ Mission done!

Big idea: More examples make better guesses.



Mission 3: Pattern Detective

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☐ Mission done!

Make a row of shapes, stickers or snacks with a hidden pattern (circle, circle, square...). Take turns: one person builds, the other guesses what comes next.

Big idea: AI spots patterns.



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Mission 4: Check the Robot's Work

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☐ Mission done!

The grown-up robot answers five easy questions and gets one wrong on purpose. Can you catch the mistake and explain the right answer?

Big idea: AI can be wrong, so people check its work.



Mission 5: Helper, Not Boss

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The robot suggests three plans for the afternoon (build a snow fort? read a book? make cocoa?). Pick one, or say no to all of them and invent a better plan.

☐ Mission done!

Big idea: AI is a helper. You make the choices.



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Mission 6: Flappy's Safety Rule Game

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A grown-up reads out ten things. Thumbs-up for "OK to tell a robot" (a favorite color). Thumbs-down for "keep it to yourself" (your name, where you live, your secrets).

☐ Mission done!

Big idea: Never tell an AI your private stuff.



Mission 7: Snowball Sorting Race

Adenvale Winter Break

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Crumple paper "snowballs" and label two buckets. Sort household things into groups, then invent a new rule and sort them again.

☐ Mission done!

Big idea: Computers sort things into groups by rules.



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Mission 8: Explain It at Home

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Teach today's big idea to someone who wasn't there: a grandparent, a sibling or a stuffed penguin. Then do one kind thing for them!

☐ Mission done!

Big idea: If you can explain it, you know it.

