

Hoist Challenge

Getting started questions

What is your overall goal?

What are your ideas to...? (lift the cage / ring the bell/create a brake)

How do you plan to represent each component? (shaft, cage, rope)

Have you put your plan on paper so you can start building? What will you do first?

Help students Problem Solve by asking

What is your biggest challenge right now?

How might you make the ____ (taller/stronger/other)?

What material do you think might be most helpful to.....?

What do you think is the function of the blue circle on the diagram? (see student sheet)

What do you plan to work on next?

Hoist Challenge

PROMPTS to get students talking

Tell me about your design

Show me what you have working so far

Tell me how your riders will get out of the cage

I NOTICED....

I noticed you are looking for a way to.....

I noticed you figured out how to....

I noticed this is hard for you, but you are sticking with it :0)

I noticed that you keep fiddling with _____, maybe you could think of a way to improve____