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Sciencetown/December 12+13 2009

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**Signal to Space**

A Notebook. Opened pages are in-game items; un-opened pages are not. You may only open pages when directed to.

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Techs required for this notebook: Laser Modulation, Satellite Imaging. Turn to page 2.

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In order to contact your ship, you'll have to look into the communications capabilities of Sciencetown. Find an area with communications capabilities and spend 2 minutes interviewing the people in the area in order to figure out how Earth communications systems work. Then, turn to page 3.

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Fascinating... that's not how SPACE communication works at all! SPACE communication technology involves many more lasers. There is no way you can contact your ship without adding some lasers to the system. Time to put your Klatu U Ph.D to work! To do Science, you'll need to find a test tube and stopper. When you have them, turn to page 4.

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These Earth test tubes are clear! How can you expect to trap laser light in a test tube with clear test tubes? You'll have to find a way to make the test tube a dark color, preferably black. Maybe there's a dyeing area of some sort. Once the test tube is dark enough that no light will be able to escape it, turn to page 5.

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Great. Time to go hunt some Earth laser! Surely there must be *some* laser facility in Sciencetown. When you find it, tune it to have the lowest wavelength possible to make sure it reaches the Klatu Nebula. Then, you'll do things using the Thermian SPACE method: put your test tube in the beam of the laser for 10 seconds to make sure you collect enough photons. Then stopper the test tube. Once you have a good sample of energetic photons, turn to page 6.

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Now you'll have to see how fast Earth photons travel. Science works by averages, so you should talk to three different Earth scientists. Ask them how fast Earth photons travel. Once you get three number values, average them. You can assume this number is a good approximation of the speed of Earth photons. When you get this number, turn to page 7.

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**Required Technology: Laser Modulation**

Oh no, that won't do. SPACE photons go at least 7 Gigatimes that fast! You'll have to modulate your Earth laser photons to go faster. Once you've researched Laser Modulation, you can turn to page 8.

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Go to the communications room, find some minions, and order them to search the skies for the Klatu Nebula! When they have done so, turn to page 9.

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**Required Technology: Satellite Imaging**

The henchhumans clearly have no idea where the Klatu Nebula is. Usually you'd be able to find it yourself – after all, you know that its space coordinates are zeta-8, iota-5, tau-rho-96 – but being on Earth has gotten your directional sense scrambled. You'll need to do some more Science. When you have researched Satellite Imaging, you can turn to page 10 to figure out a vector to your ship.

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Satellite Imaging reports that the Thermian ship, as well as the Klatu Nebula, is *directly below you!* That's why searching the skies didn't work. . . tricky. In order to get your signal to penetrate through Earth's core, you'll need a good helping of "down" quarks. About 100mL of them should do. Go get them, and turn to page 11.

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Mix the quarks into your tube of SPACE-modulated photons. Shake well. Turn page.

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This looks great! You have a SPACE mixture of SPACE-modulated photons and homing quarks. This should be able to carry your message straight to your ship instantaneously! This has worked so well that you feel like announcing your success to the world! Once you've done so, turn to page 13.

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Take your test tube to the satellite room. Order the henchhumans to direct their Earth communication devices straight downward and set power to FULL. Then, go and attach your test tube to the setup. Finally turn to page 14.

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The last thing you have to do is add your message. You need to speak your message to your ship into the test tube so the ultrafast SPACE-photons resonate at the frequency of your message. Spend one minute speaking your message. Tell your crew that you're on Earth, and describe your surroundings so they can find you. Make sure to speak loudly, so your message will still be clear after travelling thousands of megalightyears!

When this is done, your test tube becomes empty. Modify your item cards accordingly. If you got everything right, your ship should be on the way!

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