Transcript 1 Jennifer, Kate, Irene, Abdul E1 Su2011 September 21, 2011 When energy becomes less useful, people shrink.

- 1 Jennifer: I was thinking about how in both Energy
- 2 Theater and in the Energy Cubes, that they had us use a
- 3 different symbol or a different letter depending on what
- 4 type of energy is represented.
- 5 But the concept that you can't go backward, you know
- 6 that, that uh, you know once you have some of the
- 7 energy transferred to the floor or the air as heat,
- 8 that kids might think, that you can, that that's equally
- 9 reclaimable, or equally can be converted back to a more
- 10 useful form of energy.
- 11 **Abdul:** (Be reversible)
- 12 Jennifer: Reversible. So I wondered about, you know
- 13 what if you introduce the idea, or maybe kids could
- 14 come up with the idea that the more, in energy theater,
- 15 the more useful the form of energy is, the taller you
- 16 stand or something and every time the energy becomes
- 17 less useful, like if it's sound or heat or something like
- 18 that, that they shrink,
- 19 Irene: Yah,
- 20 Jennifer: you know?
- 21 Irene: especially as heat because it's wasted, part of
- 22 entropy, that's why it's () ((gesture))
- 23 Jennifer: Yeah.
- 24 Kate: Although heat is, can be useful, because if you
- 25 burn coal then heat is useful, and that's what you're,
- 26 what you're getting, right?
- 27 Jennifer: Right, but, what's useful, is, you know like
- 28 burning coal heats water, the steam turns the turbine,=
- 29 Kate: Right.
- 30 Jennifer: =so what's really useful is the mechanical
- 31 energy of the turbine moving
- 32 Abdul: Amount of control could be useful, amount of
- 33 control, when you can control this amount of heat could
- 34 be useful,=
- 35 Jennifer: mmhmm.
- 36 **Abdul:** =but in our cases, (around,) you cannot control
- 37 the () the heat energy.
- 38 Irene: Exactly.

Kate Woman 1 Jessica Irene Woman 2 Abdul

39