



Activity: Don't Wake Mom!



Grade Level(s)	Timeframe
3-5	90 - 180 min

ABSTRACT

Mom is sleeping off a bad headache, but you have to practice your piano for your recital tomorrow. How can you sound proof your room so you don't wake mom up and make her very angry?

- Discuss what engineers do and types of engineering. Card game. 20 minutes. Options for different ages, group sizes.
- Making Waves. Model pitch, volume and transmission using students as soundwaves. 15 minutes.
- Measure noise using smartphone app. 5 minutes.


007 - Don't Wake Mom! - Rev 1

- Insulate a bedroom (small box) to keep sound in, so you can practice piano (smartphone) without waking Mom. 30 minutes.
- Suggested questions for wrap-up. 25 minutes.

90 minutes total.

Contributed by Engspire.

EXTRA FILES

 007_2.pdf

SUPPLIES AND EQUIPMENT

See uploaded file for full details.

- Smartphone with sound meter app.
- Small box for room, several types of soundproofing.
- Engineer cards, included in uploaded file and available to borrow.

GETTING READY

See uploaded file.