

Υπουργείο Εθνικής Παιδείας και Θρησκευμάτων
Παιδαγωγικό Ινστιτούτο

Φυσικά Δημοτικού ΕΡΕΥΝΩ ΚΑΙ ΑΝΑΚΑΛΥΠΤΩ

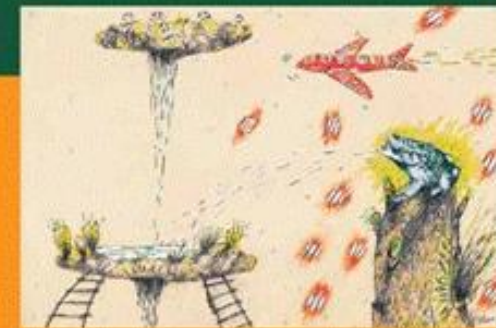


Τετράδιο Εργασιών

Οργανισμός Εκδόσεως Διδακτικών Βιβλίων
Αθήνα

Υπουργείο Εθνικής Παιδείας και Θρησκευμάτων
Παιδαγωγικό Ινστιτούτο

Φυσικά Δημοτικού ΕΡΕΥΝΩ ΚΑΙ ΑΝΑΚΑΛΥΠΤΩ



Βιβλίο μαθητή

Οργανισμός Εκδόσεως Διδακτικών Βιβλίων
Αθήνα

Χρήσιμες ιστοσελίδες για τα Φυσικά της Ε' Δημοτικού

φυσικά ε' τάξης

<http://ebooks.edu.gr/modules/ebook/show.php/DSDIM-E107/559/3671,15941/>

<http://peiramatafysikis.blogspot.gr/>

http://users.sch.gr/tzormpas/html/03_ekp/05_e/04_fy.html

<http://ekfe.eyv.sch.gr/?p=809>

ΦΕ1: Η ενέργεια έχει πολλά πρόσωπα

<http://www.atheo.gr/%CF%86%CF%85%CF%83%CE%B9%CE%BA%CE%AE-%CE%B5%CE%84/>

<http://www.slideboom.com/presentations/620229>

ΦΕ2: Η ενέργεια αποθηκεύεται

<http://www.slideboom.com/presentations/620240/%CE%97->

[%CE%95%CE%9D%CE%95%CE%A1%CE%93%CE%95%CE%99%CE%91-](http://www.slideboom.com/presentations/620240/%CE%97-%CE%95%CE%9D%CE%95%CE%A1%CE%93%CE%95%CE%99%CE%91-)

[%CE%91%CE%A0%CE%9F%CE%98%CE%97%CE%9A%CE%95%CE%A5%CE%95%CE%A4%CE%91%CE%99](http://www.slideboom.com/presentations/620240/%CE%97-%CE%95%CE%9D%CE%95%CE%A1%CE%93%CE%95%CE%99%CE%91-%CE%91%CE%A0%CE%9F%CE%98%CE%97%CE%9A%CE%95%CE%A5%CE%95%CE%A4%CE%91%CE%99)

ΦΕ3: Η ενέργεια αλλάζει συνεχώς μορφή

<http://www.slideboom.com/presentations/620244/%CE%97->

[%CE%95%CE%9D%CE%95%CE%A1%CE%93%CE%95%CE%99%CE%91-](http://www.slideboom.com/presentations/620244/%CE%97-%CE%95%CE%9D%CE%95%CE%A1%CE%93%CE%95%CE%99%CE%91-)

[%CE%91%CE%9B%CE%9B%CE%91%CE%96%CE%95%CE%99-](http://www.slideboom.com/presentations/620244/%CE%97-%CE%95%CE%9D%CE%95%CE%A1%CE%93%CE%95%CE%99%CE%91-%CE%91%CE%9B%CE%9B%CE%91%CE%96%CE%95%CE%99-)

[%CE%A3%CE%A5%CE%9D%CE%95%CE%A7%CE%A9%CE%A3-%CE%9C%CE%9F%CE%A1%CE%A6%CE%97](http://www.slideboom.com/presentations/620244/%CE%97-%CE%95%CE%9D%CE%95%CE%A1%CE%93%CE%95%CE%99%CE%91-%CE%91%CE%9B%CE%9B%CE%91%CE%96%CE%95%CE%99-%CE%A3%CE%A5%CE%9D%CE%95%CE%A7%CE%A9%CE%A3-%CE%9C%CE%9F%CE%A1%CE%A6%CE%97)

ΦΕ4: Η ενέργεια υποβαθμίζεται

<http://www.slideboom.com/presentations/620446/%CE%97-%CE%95%CE%9D%CE%95%CE%A1%CE%93%CE%95%CE%99%CE%91-%CE%A5%CE%A0%CE%9F%CE%92%CE%91%CE%98%CE%9C%CE%99%CE%96%CE%95%CE%A4%CE%91%CE%99>

ΦΕ5: Τροφές και ενέργεια

<http://www.slideboom.com/presentations/620447/%CE%A4%CE%A1%CE%9F%CE%A6%CE%95%CE%A3-%26-%CE%95%CE%9D%CE%95%CE%A1%CE%93%CE%95%CE%99%CE%91>

Θερμότητα

ΦΕ1: Το θερμόμετρο

<http://www.slideboom.com/presentations/461554>

ΦΕ2: Θερμοκρασία θερμότητα: δύο έννοιες διαφορετικές

<http://www.slideboom.com/presentations/465916>

ΦΕ3: Τήξη και πήξη

<http://www.slideboom.com/presentations/475945>

<http://www.slideshare.net/gregzer/ss-2889428>

ΦΕ4: Εξάτμιση και συμπύκνωση

<http://www.slideboom.com/presentations/475948>

<http://www.slideshare.net/gregzer/ss-2889139>

ΦΕ5: Βρασμός

<http://www.slideboom.com/presentations/479011/%CE%98%CE%95%CE%A1%CE%9C%CE%9F%CE%A4%CE%97%CE%A4%CE%91-%CE%A6%CE%955---%CE%92%CE%A1%CE%91%CE%A3%CE%9C%CE%9F%CE%A3>

ΦΕ6: Θερμαίνοντας και ψύχοντας τα στερεά

<http://www.slideboom.com/presentations/479012>

<http://www.slideshare.net/gregzer/ss-2990463>

ΦΕ7: Θερμαίνοντας και ψύχοντας τα υγρά

<http://www.slideboom.com/presentations/479013>

<http://www.slideshare.net/gregzer/ss-2990312>

ΦΕ8: Θερμαίνοντας και ψύχοντας τα αέρια

<http://www.slideboom.com/presentations/481224/%CE%98%CE%95%CE%A1%CE%9C%CE%9F%CE%A4%CE%97%CE%A4%CE%91-%CE%A6%CE%958--->

<http://www.slideboom.com/presentations/481224/%CE%98%CE%95%CE%A1%CE%9C%CE%91%CE%99%CE%9D%CE%9F%CE%9D%CE%A4%CE%91%CE%A3-%26->

[%CE%A8%CE%A5%CE%A7%CE%9F%CE%9D%CE%A4%CE%91%CE%A3-%CE%A4%CE%91-%CE%91%CE%95%CE%A1%CE%99%CE%91](#)

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Ηλεκτρισμός

<http://eclass31.weebly.com/etalambdaepsilonkappataurhoiotasigmamamu972sigmaf.html>

ΣΤΑΤΙΚΟΣ ΗΛΕΚΤΡΙΣΜΟΣ

<http://www.slideboom.com/presentations/486100>

ΗΛΕΚΤΡΟΣΚΟΠΙΟ

<http://www.slideboom.com/presentations/490949/%CE%97%CE%9B%CE%95%CE%9A%CE%A4%CE%A1%CE%9F%CE%A3%CE%9A%CE%9F%CE%A0%CE%99%CE%9F>

<http://www.slideshare.net/gregzer/ss-3299277>

ΠΟΤΕ ΑΝΑΒΕΙ ΤΟ ΛΑΜΠΑΚΙ

<http://www.slideboom.com/presentations/490962/%CE%A0%CE%9F%CE%A4%CE%95-%CE%91%CE%9D%CE%91%CE%92%CE%95%CE%99-%CE%A4%CE%9F-%CE%9B%CE%91%CE%9C%CE%A0%CE%91%CE%9A%CE%99>

<http://www.slideshare.net/gregzer/ss-3299473>

ΕΝΑ ΑΠΛΟ ΚΥΚΛΩΜΑ

<http://www.slideboom.com/presentations/498664/%CE%95%CE%9D%CE%91-%CE%91%CE%A0%CE%9B%CE%9F-%CE%9A%CE%A5%CE%9A%CE%9B%CE%A9%CE%9C%CE%91>

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ΤΟ ΗΛΕΚΤΡΙΚΟ ΡΕΥΜΑ

<http://www.slideshare.net/gregzer/ss-3471252>

ΕΝΑ-ΑΠΛΟ-ΚΥΚΛΩΜΑ

<http://www.slideboom.com/presentations/498664/%CE%95%CE%9D%CE%91-%CE%91%CE%A0%CE%9B%CE%9F-%CE%9A%CE%A5%CE%9A%CE%9B%CE%A9%CE%9C%CE%91>

ΑΓΩΓΟΙ ΚΑΙ ΜΟΝΩΤΕΣ

<http://www.slideshare.net/gregzer/ss-3848902>

ΔΙΑΚΟΠΤΗΣ

<http://www.slideboom.com/presentations/510815>

<http://www.slideshare.net/gregzer/ss-3850988>

ΣΥΝΔΕΣΗ ΣΕ ΣΕΙΡΑ & ΠΑΡΑΛΛΗΛΗ ΣΥΝΔΕΣΗ

<http://www.slideboom.com/presentations/525936/%CE%A3%CE%A5%CE%9D%CE%94%CE%95%CE%A3%CE%97-%CE%A3%CE%95-%CE%A3%CE%95%CE%99%CE%A1%CE%91-%26-%CE%A0%CE%91%CE%A1%CE%91%CE%9B%CE%9B%CE%97%CE%9B%CE%97-%CE%A3%CE%A5%CE%9D%CE%94%CE%95%CE%A3%CE%97>

ΤΟ ΗΛΕΚΤΡΙΚΟ ΡΕΥΜΑ – ΜΙΑ ΕΠΙΚΙΝΔΥΝΗ ΥΠΟΘΕΣΗ

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Διάδοση του φωτός

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ΔΙΑΦΑΝΗ, ΗΜΙΔΙΑΦΑΝΗ & ΑΔΙΑΦΑΝΗ ΣΩΜΑΤΑ

<http://www.slideboom.com/presentations/543339/%CE%94%CE%99%CE%91%CE%A6%CE%91%CE%9D%CE%97,-%CE%97%CE%9C%CE%99%CE%94%CE%99%CE%91%CE%A6%CE%91%CE%9D%CE%97-%26-%CE%91%CE%94%CE%99%CE%91%CE%A6%CE%91%CE%9D%CE%97-%CE%A3%CE%A9%CE%9C%CE%91%CE%A4%CE%91>

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φώς και σκιές

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ανάκλαση και διάθλαση του φωτός

<http://www.slideboom.com/presentations/556803/%CE%91%CE%9D%CE%91%CE%9A%CE%9B%CE%91%CE%A3%CE%97-%26-%CE%94%CE%99%CE%91%CE%A7%CE%A5%CE%A3%CE%97-%CE%A4%CE%9F%CE%A5-%CE%A6%CE%A9%CE%A4%CE%9F%CE%A3>

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απορρόφηση του φωτός

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ο ήχος

<http://anoixtosxoleio.weebly.com/etachiomicrosigma.html#.VbFLQ6Ttmko>

<http://www.atheo.gr/category/%CF%86%CF%85%CF%83%CE%B9%CE%BA%CE%B7%CE%B58/>

πώς παράγεται ο ήχος

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<http://www.slideboom.com/presentations/556806/%CE%A0%CE%A9%CE%A3-%CE%A0%CE%91%CE%A1%CE%91%CE%93%CE%95%CE%A4%CE%91%CE%99-%CE%9F-%CE%97%CE%A7%CE%9F%CE%A3>

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διάδοση του ήχου

<http://www.slideboom.com/presentations/977257/%CE%94%CE%99%CE%91%CE%94%CE%9F%CE%A3%CE%97-%CE%A4%CE%9F%CE%A5-%CE%97%CE%A7%CE%9F%CE%A5>

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ανάκλαση του ήχου

<http://www.slideboom.com/presentations/977267/%CE%91%CE%9D%CE%91%CE%9A%CE%9B%CE%91%CE%A3%CE%97-%CE%A4%CE%9F%CE%A5-%CE%97%CE%A7%CE%9F%CE%A5>

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απορρόφηση του ήχου

<http://www.slideboom.com/presentations/977294/%CE%91%CE%A0%CE%9F%CE%A1%CE%A1%CE%9F%CE%A6%CE%97%CE%A3%CE%97-%CE%A4%CE%9F%CE%A5-%CE%97%CE%A7%CE%9F%CE%A5>

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άνθρωπος και αυτί

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<http://www.slideshare.net/velipsi/5-12975338>

<http://www.slideshare.net/xristosxarmpis/85-47073519>

ηχορύπανση- ηχοπροστασία

<http://www.slideboom.com/presentations/977304/%CE%97%CE%A7%CE%9F%CE%A1%CE%A1%CE%A5%CE%A0%CE%91%CE%9D%CE%A3%CE%97---%CE%97%CE%A7%CE%9F%CE%A0%CE%A1%CE%9F%CE%A3%CE%A4%CE%91%CE%A3%CE%99%CE%91>

μηχανική

ταχύτητα

<http://www.slideboom.com/presentations/986317/%CE%97-%CE%A4%CE%91%CE%A7%CE%A5%CE%A4%CE%97%CE%A4%CE%91>

δυνάμεις

<http://www.atheo.gr/%CF%86%CE%B5-2-%CE%BF%CE%B9-%CE%B4%CF%85%CE%BD%CE%B1%CE%BC%CE%B5%CE%B9%CF%83/>

δυνάμεις με επαφή δυνάμεις από απόσταση

<http://www.atheo.gr/%CF%86%CE%B5-3-%CE%B4%CF%85%CE%BD%CE%B1%CE%BC%CE%B5%CE%B9%CF%83-%CE%BC%CE%B5-%CE%B5%CF%80%CE%B1%CF%86%CE%B7-%CE%B4%CF%85%CE%BD%CE%B1%CE%BC%CE%B5%CE%B9%CF%83-%CE%B1%CF%80%CE%BF-%CE%B1%CF%80/>

μετράμε τη δύναμη

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τριβή

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<http://blogs.sch.gr/velipsi65/2012/06/10/%CF%86%CF%85%CF%83%CE%B9%CE%BA%CE%B7-%CF%80%CE%B1%CF%81%CE%B1%CE%B3%CE%BF%CE%BD%CF%84%CE%B5%CF%83-%CE%B1%CF%80%CE%BF-%CF%84%CE%BF%CF%85%CF%83-%CE%BF%CF%80%CE%BF%CE%B9%CE%BF%CF%85%CF%83-%CE%B5%CE%BE/>

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τριβή: επιθυμητή ή ανεπιθύμητη

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πίεση

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υδροστατική πίεση

<https://www.youtube.com/watch?v=2d7Qn74LIAs>

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ατμοσφαιρική πίεση

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<https://www.youtube.com/watch?v=WcArczbdLmc>

υλικά σώματα

Όγκος

<http://www.slideboom.com/presentations/605392/%CE%9F-%CE%9F%CE%93%CE%9A%CE%9F%CE%A3>

<http://www.atheo.gr/%CF%86%CE%B51-%CE%BF%CE%B3%CE%BA%CE%BF%CF%83/>

ΦΕ2: Μάζα

<http://www.slideboom.com/presentations/605396/%CE%97-%CE%9C%CE%91%CE%96%CE%91>

<http://www.atheo.gr/%CF%86%CE%B52-%CE%BC%CE%B1%CE%B6%CE%B1/>

ΦΕ3: Πυκνότητα

<http://www.slideboom.com/presentations/620180/%CE%97-%CE%A0%CE%A5%CE%9A%CE%9D%CE%9F%CE%A4%CE%97%CE%A4%CE%91>

<http://www.atheo.gr/%CF%86%CE%B53-%CF%80%CF%85%CE%BA%CE%BD%CE%BF%CF%84%CE%B7%CF%84%CE%B1/>

ΦΕ1: Μελετάμε τα μίγματα

<http://www.slideboom.com/presentations/620259/%CE%9C%CE%95%CE%9B%CE%95%CE%A4%CE%91%CE%9C%CE%95-%CE%A4%CE%91-%CE%9C%CE%99%CE%93%CE%9C%CE%91%CE%A4%CE%91>

<http://www.atheo.gr/%CF%86%CE%B51-%CE%BC%CE%B5%CE%BB%CE%B5%CF%84%CE%B1%CE%BC%CE%B5-%CF%84%CE%B1-%CE%BC%CE%B9%CE%B3%CE%BC%CE%B1%CF%84%CE%B1/>

<http://anoixtosxoleio.weebly.com/muiotagammamualphataualpha.html#.VbFTsKTtmko>

ΦΕ2: Μελετάμε τα διαλύματα

<http://www.slideboom.com/presentations/620208/%CE%9C%CE%95%CE%9B%CE%95%CE%A4%CE%91%CE%9C%CE%95-%CE%A4%CE%91-%CE%94%CE%99%CE%91%CE%9B%CE%A5%CE%9C%CE%91%CE%A4%CE%91>

<http://www.atheo.gr/%CF%86%CE%B52-%CE%BC%CE%B5%CE%BB%CE%B5%CF%84%CE%B1%CE%BC%CE%B5-%CF%84%CE%B1-%CE%B4%CE%B9%CE%B1%CE%BB%CF%85%CE%BC%CE%B1%CF%84%CE%B1/>

Πεπτικό σύστημα Ε΄ τάξης

ΦΕ1: Ισορροπιμένη διατροφή

<http://www.slideboom.com/presentations/452153/%CE%A0%CE%B5%CF%80%CF%84%CE%B9%CE%BA%CF%8C-%CF%83%CF%8D%CF%83%CF%84%CE%B7%CE%BC%CE%B1-1---%CE%99%CF%83%CE%BF%CF%81%CF%81%CE%BF%CF%80%CE%B7%CE%BC%CE%AD%CE%BD%CE%B7-%CE%B4%CE%B9%CE%B1%CF%84%CF%81%CE%BF%CF%86%CE%AE>

<http://www.atheo.gr/%CF%86%CE%B51-%CE%B9%CF%83%CE%BF%CF%81%CF%81%CE%BF%CF%80%CE%B7%CE%BC%CE%B5%CE%BD%CE%B7-%CE%B4%CE%B9%CE%B1%CF%84%CF%81%CE%BF%CF%86%CE%B7/>

ΦΕ2: Τα δόντια μας - Η αρχή του ταξιδιού της τροφής

<http://www.slideboom.com/presentations/452174>

<http://www.atheo.gr/%CF%86%CE%B52-%CF%84%CE%B1-%CE%B4%CE%BF%CE%BD%CF%84%CE%B9%CE%B1-%CE%BC%CE%B1%CF%83-%CE%B7-%CE%B1%CF%81%CF%87%CE%B7-%CF%84%CE%BF%CF%85-%CF%84%CE%B1%CE%BE%CE%B9%CE%B4%CE%B9%CE%BF%CF%85-%CF%84/>

ΦΕ3: Το ταξίδι της τροφής συνεχίζεται

<http://www.atheo.gr/%CF%86%CE%B53-%CF%84%CE%BF-%CF%84%CE%B1%CE%BE%CE%B9%CE%B4%CE%B9-%CF%84%CE%B7%CF%83-%CF%84%CF%81%CE%BF%CF%86%CE%B7%CF%83-%CF%83%CF%85%CE%BD%CE%B5%CF%87%CE%B9%CE%B6%CE%B5%CF%84%CE%B1%CE%B9/>